

1 reporter will be better informed, the coverage
2 will be more accurate and so on.

3 MS. BRUHN: So, do they usually
4 make it?

5 MS. REBELLO: Do they usually make
6 it?

7 MS. BRUHN: In other words, do you
8 keep track? Do they --

9 MS. REBELLO: Yes.

10 MS. BRUHN: Do you keep track of
11 your success so that within a timely fashion,
12 you know, reporters are often on deadlines.
13 Are they usually able to speak to who they
14 want to speak to within a reasonably short
15 period of time?

16 MS. REBELLO: I can say we
17 certainly try our best. We don't do 100
18 percent, you know, we're not 100 percent
19 effective at that. Just from the sheer volume
20 of calls that we get, and you -- if you couple
21 that with, when we're dealing with an
22 outbreak, unfortunately, we're not going to

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1 get to all the media inquiries.

2 But we've just added a mechanism
3 last year for our website. So, if you're a
4 reporter who doesn't really know FDA, and you
5 have a device question, you can send an email
6 online, and it goes to the two press officers
7 that handle those inquiries.

8 We also have been really trying to
9 develop our media lists -- or better -- to
10 make them better and trying to reach out as
11 much as we can. But, there's certainly room
12 for improvement.

13 CHAIRMAN FISCHHOFF: David.

14 MR. SMITH: I've got sort of a two-
15 part question, I guest the first is, for
16 Heidi, and maybe Nancy. Do you share the
17 perspective that John showed in, you know,
18 clearly there's a desire and we heard from
19 yesterday from everybody about transparency
20 and better communication. And, you know, do
21 you share that there's some more modern tools
22 to use that John talked about to do that in a

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1 better way?

2 And then secondarily I guess for
3 everybody, in light of some of the perspective
4 that Ellen shared yesterday, and the horrible
5 mathematical acumen of the general public, how
6 do you deal with these things of probability
7 and even my guess is, bar charts and pie
8 charts are going to be a struggle for a
9 significant part. So, yes, the verbal
10 communication is tough, but I don't know that
11 -- I guess we have to test it, but how do you
12 look at that?

13 And is there any plans and would
14 there be an action plan from FDA to actually
15 look at that? And is that in your -- or may
16 be part of the strategic plan part we talked
17 about. I don't know.

18 MS. REBELLO: I can -- okay. Well,
19 I certainly really enjoyed your presentation,
20 Dr. Paling. And we are looking at ways to be
21 -- to better communicate. Like when we have
22 announcements of agency initiatives, and where

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1 we have time, we really tried to do a multi-
2 media package and you know, not often, but we
3 have done in the past where we have a senior
4 official whose -- you know, we have a studio
5 over -- that they can go to and tape a message
6 to, as a different form of communication.

7 We have the Commissioner, has
8 Andy's Take on the website now. And it's a
9 forum for him to once a week, speak about an
10 issue to consumers. He also tapes it. So you
11 can hear his voice.

12 And then your second question was
13 about the numbers. And that's why I was
14 talking about context. Without context, I
15 think numbers, at least you know, we have a
16 very hard time sometimes explaining the
17 context around the numbers. And we would
18 really -- that's an area I think, we would
19 really find useful, if you could provide us
20 help with, maybe coming up with analogies.

21 Is there any way to provide
22 analogies of risk to explain complex

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1 information? We have risk assessments that
2 come out, and during the melamine in pet food,
3 we issued a joint news release with USDA. And
4 on a risk assessment that concluded
5 essentially that there was very low risk to
6 human health from consuming meat from hogs and
7 chickens known to have been fed animal feed
8 supplemented with pet food scraps that
9 contained melamine, which
10 was -- and that was you know, during the
11 melamine and pet food.

12 And so, we tried to -- and actually
13 we don't have any credit from this. USDA came
14 up with a way to try to explain it. And so
15 what we said in our news release was,
16 translated to consumption levels, this means
17 that a person weighing 132 pounds would have
18 to eat more than 800 pounds per day of pork or
19 food containing melamine and its compounds to
20 approach a level of consumption that would
21 cause a health concern.

22 It's a little wordy, but it really,

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1 you know, it helped to translate the risk.
2 And we need to do more of that.

3 CHAIRMAN FISCHHOFF: Let's see.
4 Betsy, Marielos, Mike and then Ellen.

5 MS. SLEATH: I just had a comment
6 related to John's talk. One of your -- it was
7 excellent, by the way. One of your comments
8 was that telling patients they should
9 communicate with their healthcare
10 professionals about risks and benefits. And
11 I'm not convinced that healthcare
12 professionals have the adequate tools to
13 discuss risks and benefits.

14 I work in a pharmacy school. I've
15 studied communication for years. And so, I
16 would argue that we also have to think about
17 how do we educate healthcare professionals to
18 talk about risk, and at the same time, for the
19 public to feel as though they need to be
20 empowered on, How do I understand risk.

21 Because I think it's very grey
22 area. So, I know that each of your agencies,

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1 or divisions has a website and showed us what
2 they do. But one question I have is, do you
3 have a risk communication section of your
4 overall web page, you know, that may be advice
5 for providers, advice for consumers. Is there
6 anything like that? And if not, I would
7 suggest that's something that should be
8 considered.

9 MS. REBELLO: I don't think that
10 there's a formal one-stop-shopping on risk
11 communication. I think it probably is
12 throughout the website. But not a centralized
13 place. But I'll definitely take that back.
14 That's good feedback.

15 MS. SLEATH: Because actually, I
16 tried to use your website before I came here
17 to find information to use in my class to
18 teach first year pharmacy students about the
19 FDA. Because at one of these meetings,
20 someone told me there was a curriculum. And
21 even though your website's getting better,
22 when you search things, it's still very hard

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1 to find stuff. So, I would give that feedback
2 as well.

3 It just -- it's almost -- it's
4 impossible. For me, it was impossible.

5 MS. REBELLO: I'm sorry to hear
6 that. We are trying to improve upon that.

7 MS. MCNEILL: Hi. Good morning. As
8 far as the website goes, oh, I'm in the wrong
9 place, aren't I. Excuse me. Lorrie McNeill.

10 My office is responsible for managing the
11 Center for Biologic's website. And so my
12 staff are actively participating in the
13 agency's efforts to move to a new content
14 management system.

15 And they've been doing extensive
16 usability studies with a wide variety of
17 stakeholders, not only FDA staff, but they've
18 gone out to consumers, healthcare
19 professionals, industry representatives and
20 folks from a variety of organizations that
21 have an interest in the information that we
22 post.

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1 So, I think once we do this
2 transfer, which I think is supposed to happen
3 by the end of December, you will see a vast
4 improvement in the agency's site as far as
5 being able to navigate and find the
6 information that you're looking for.

7 So, we're getting there. But you
8 know, it's a very painful process and it's
9 very time consuming. But I think it's
10 supposed to be done by the end of the year.

11 CHAIRMAN FISCHHOFF: Marielos.

12 MS. VEGA: I do also agree with
13 what just Betsy had to say. I work in a
14 medical institution. I went to nursing
15 school. And I have never seen any formal
16 training in risk communication, so I think
17 your point is very well taken.

18 This question, I think, is for
19 Heidi. In this meeting, and over the past
20 meetings we have discussed the importance of
21 perhaps having a single voice, or a
22 spokesperson for the FDA when communicating to

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1 the public, especially emergency situations.
2 Is there a reason why this hasn't happened?
3 That there is one spokesperson for the FDA?

4 MS. REBELLO: I mean, I know that
5 I've heard that in the past meetings. And
6 it's you know, it's been brought to management
7 and considering. I will tell you that our
8 issues are so diverse, that it's oftentimes,
9 we go to the best technical expert to be able
10 to bring that person to talk to reporters, to
11 the public. But I understand your need and
12 suggestion, and we'll explore it.

13 CHAIRMAN FISCHHOFF: Mike.

14 MR. GOLDSTEIN: I too want to thank
15 everybody for their presentations today. And
16 I want to start with John's because I think
17 there's so many opportunities we have to make
18 something simple, and do it effectively. And
19 your recommendations, every single one of
20 them, I can endorse 100 percent, something FDA
21 could start to do tomorrow.

22 And the very first one, I think it

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1 was the first one, letting people know that
2 all drugs have risks and benefits. Yes, the
3 effort is to make drugs and devices and foods
4 that's safe and effective as possible. And
5 that's what FDA is trying to do. But all of
6 these devices and drugs have risks and
7 benefits.

8 And then to explain it in ways that
9 folks can understand. So there's some very
10 basic concepts that are really, really, simple
11 and effective, I think, easily applied.

12 And then, AnnaMaria's presentation
13 just blew me away. The preparedness that was
14 demonstrated in how you work with industry,
15 really, to -- it's mostly industry, I guess,
16 to prepare.

17 And I think there are lessons
18 learned there. And I know they're resource
19 limitations, but you have talked about them
20 before. But to the degree that you can
21 approximate a process that is in place in the
22 commercial world, I think would be fantastic.

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1 To think about the preparedness.

2 And part of the preparedness has to
3 do with others have mentioned, Betsy mentioned
4 just before. The need to help our clinicians
5 have these conversations with patients when an
6 event occurs. And they need help. Training,
7 yes. And I do training in this area. So I
8 know some training occurs, not enough. We
9 need to use, and I think, some core principles
10 like the ones that John mentioned, as the
11 starting place.

12 But then, we also need the tools.
13 And AnnaMaria talked about the effort that
14 they put into helping those affective
15 clinicians who already had some training, use
16 some specific tools and have some specific
17 language, so that they can help patients to
18 address both their fears, to make the right
19 decisions together, so that they can mitigate
20 any risks.

21 So, I think all those things are so
22 important and so valuable. And we can learn

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1 some lessons from them. It does require some
2 shifting of resources, some more resources,
3 perhaps some more partnering with the
4 commercial side, so that those things can be
5 put in place.

6 But I don't think there's any --
7 what's the right word -- excuse comes to mind.

8 If the FDA really wants to -- and this is not
9 for the FDA. This is for above the FDA,
10 whoever makes the decisions. If we want to be
11 as safe and effective as possible, then we
12 need to be prepared. And then we need to
13 adopt the kinds of principles and strategies
14 and processes that industry is adopting in
15 order to do the best job that they can.

16 So, somebody needs to get that
17 message. We need to have the same kind of
18 processes in place. Because we're -- where
19 FDA is dealing with so many more important
20 risks, when we talk about the food supply,
21 when we talk about the millions of people who
22 are taking -- hundreds of millions of people

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1 who are taking pharmaceutical agents that
2 can't be reached through industry as easily,
3 it really requires this kind of preparedness.

4 And I think we have to invest as a
5 country in the preparedness. So, I'll get off
6 my soap box.

7 CHAIRMAN FISCHHOFF: Thanks. Ellen
8 and then Linda.

9 MS. PETERS: I wanted to return to
10 a topic that Dr. Smith brought up, around
11 numbers are difficult. And the importance of
12 communicating numbers. One thing that
13 sometimes comes up in the risk communication
14 literature, and this is something that Baruch
15 has actually written about, is that sometimes
16 it seems that some communication is so
17 difficult that we shouldn't bother.

18 That it's just too difficult.
19 There's not a way to get around people who are
20 innumerate, who aren't as good with numbers.
21 And I wanted to actually point back to one of
22 the analogies that John showed. One of these

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1 great visuals, but make a slightly different
2 point from it.

3 He brought up the point of the bees
4 being an incredibly efficient, very efficient
5 as a hive. But then when you slow it down,
6 and you look at all the mistakes, they're
7 making a lot of mistakes. They're bumping
8 into each other. But the point I'd like to
9 make is, that they keep on trying. They might
10 have gotten knocked down to the ground, but
11 they got back up again and they continued to
12 try to get into the hive.

13 And it worked eventually. Just
14 like the little engine that could, eventually
15 made it over the hill, if we keep trying to
16 figure out ways to communicate the numbers, we
17 will in the end, end up with better informed
18 patients, and hopefully with better health in
19 the end. And that's what we're looking for.

20 A couple of other points just along
21 that same line. We know a bit at this point
22 about how to communicate numeric information.

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1 We don't know everything. I believe that we
2 need more testing with less numerate
3 populations who aren't as good with numbers.

4 In particular, I think we need more
5 testing with elderly adults, who as a
6 population, tend to be less numerate. But in
7 addition to that, because of declines of
8 cognitive processing, they're also less
9 flexible with change. They're less flexible
10 with new types of information. And I think we
11 need more testing specifically with them.

12 In addition, I think we need more
13 testing with them, because they are the ones
14 that consume the large proportion of our
15 pharmaceuticals. And so in particular, it's
16 important to understand how they would react
17 to this kind of thing. We actually don't know
18 much about that yet.

19 Some of the things that we do know,
20 though, in terms of how to communicate numbers
21 is, we need to use judgments. We need to use
22 judgment in what format to present a number

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1 in. So, some things we know already, are that
2 if you use verbal labels. Some of the verbal
3 labels that John was talking about, in
4 communicating risks, that is going to lead to
5 probably the greatest risk perception of the
6 side effects based on the studies that have
7 been published so far.

8 You can use frequency
9 presentations. One out of 10,000, for
10 example. Or you could use percentage formats.

11 I can't even do that translation quickly, but
12 one percent versus one out of 100. We know
13 that highly numerate people, there's not going
14 to be much of a difference, regardless of what
15 format you present that number in, unless you
16 use the verbal labels, by the way.

17 But if you use actual numbers, it's not going
18 to make much of a difference to people who are
19 good with numbers.

20 For people who are less numerate,
21 if you use a frequency presentation, it
22 actually will connote greater risk

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1 perceptions. It will effectively deliver more
2 risk is there if you use one out of 100, than
3 if you use one percent out of 100, for people
4 who are less good with numbers.

5 And so, it's not that one is better
6 than the other, it's that there's a choice to
7 be made. If it is deserving for a greater
8 risk to be communicated there, then the FDA,
9 or whoever the communicator is, needs to make
10 a choice. If it appears as if people are
11 fearful and anxious, and you want to quell
12 some of that, some undue fear at that point,
13 then using a percentage format may be the
14 better way to do that. But it's a choice.
15 It's a judgment call.

16 John brought up the idea of
17 framing. And whether you frame information in
18 a negative frame, the proportion of people who
19 will get the side effect, or a positive frame,
20 the number of people who will not get that
21 side effect. And he suggested using both
22 frames.

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1 Again, there's an issue with
2 numeracy here. If you use a single frame,
3 people who are more numerate, it's not going
4 to make much of a difference. The frame isn't
5 going to effect them as much. It affects them
6 some, but not as much.

7 People who are less numerate are
8 much more affected by those frames of
9 information. I would claim, it's actually not
10 clear what's going to happen if you present
11 both frames of the information though. It
12 needs to be tested. It could be that what
13 will happen, is if you present both frames of
14 the information, you're going to help the less
15 numerate to better understand the complexity
16 really that's involved in a single number.
17 And they'll get more meaning from that.

18 On the other hand, there's other
19 data that suggests that the more information,
20 the more numbers you provide, and particular
21 to less numerate people, the less they
22 comprehend. And so, it's not entirely clear

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1 what's going to happen. And as far as I know,
2 it hasn't been tested. So it's another case,
3 where there's an empirical investigation that
4 needs to be done. It's not quite that simple.

5 And what it comes down to again,
6 and I always hate bashing the FDA over the
7 head on this over and over, is we need
8 testing. We need testing to make sure that
9 what we're doing is going to deliver the best
10 health to our patients and our consumers. And
11 in the end, we need testing to be able to
12 ensure that the U.S. public is getting what
13 they deserve.

14 CHAIRMAN FISCHHOFF: Let's see.
15 Linda, Marielos and then Christine.

16 MS. NEUHAUSER: I too wanted to
17 thank everybody for the excellent
18 presentations. And I'm still trying to digest
19 what Ms. Rebello talked about. Because the
20 enormity of what you're faced with as far as
21 challenges, the lack of resources to carry it
22 out and the questions that you have, you have

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1 a whole list of questions. And I really can't
2 think of anything that is more important to
3 the charge of this committee than trying to
4 answer the questions.

5 We just heard from John Paling and
6 Ellen Peters, that even coming up with an
7 answer to something like putting out risks and
8 benefits and probabilities is something that
9 needs a lot of thought here. So, my question
10 to you is, have you ever had an internal,
11 strategic assessment of your office? Because
12 the list you have is so long.

13 I mean, you could pick any one of
14 these things like we need to do better at
15 evaluating, and each one of those would
16 require an assessment of what you're doing
17 now, your resources, your ideas, who else you
18 could call on in the agency. So, moving ahead
19 strategically to do better, would require
20 something like that.

21 And then, I would suggest a
22 strategic plan to figure out how each one of

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1 these things that you would like to
2 accomplish, each of which is enormously
3 important for the public, is going to be
4 carried out and by whom.

5 MS. REBELLO: Thank you. For your
6 question about the internal strategic
7 assessment, I'm actually, I'm not sure if
8 we've done anything formally. I know that
9 when we -- after an event, or after an
10 announcement, or we roll out a major
11 initiative, we do take the time, not always,
12 but we do do it as much as we can, to go in
13 and to reassess where our strengths and
14 weaknesses were.

15 We did that with the Heparin.
16 Actually, the CDER lead that. And I think
17 throughout the agency, folks do that as well,
18 in terms of for communications.

19 But you know, like I mentioned, we
20 need to do a better job at that. I feel like
21 a broken record. But your insights are very
22 valuable, thank you.

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1 MS. NEUHAUSER: Well, just to
2 clarify a little bit, you can do sort of
3 piecemeal assessments of this issue and that
4 issue, but that kind of approach is probably
5 not going to get you where you want to go.
6 And it won't really respond to what Congress
7 is asking in terms of improving the risk
8 communication capabilities and activities of
9 the FDA, which relies so heavily on your
10 office.

11 And so, my question is really an
12 agency-wide question. Rather than necessarily
13 a question for your office.

14 MS. REBELLO: I see.

15 MS. NEUHAUSER: And maybe one for
16 the committee to consider in the light of the
17 Congressional requirements under the new Act.

18 MS. VEGA: Something that Ellen
19 said, it reminded me in terms of the issue of
20 framing. It reminded me of a case in our
21 institution where first we don't have enough
22 staff who is multi-cultural. So, there was

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1 the case of this patient, hispanic patient,
2 monolingual, who had a test for colon cancer,
3 a blood test. And the test was positive

4 So, a letter was sent to the
5 patient, saying the test was positive and that
6 she needed to come in. The patient never came
7 in, and there was no followup. Eventually she
8 came in, but it was already about two and a
9 half years later. And to the patient's
10 understanding, the positive in her culture
11 meant something good.

12 So, she was under the impression
13 then everything was fine, she didn't have to
14 worry about it. Of course, the symptoms
15 persist. She continued bleeding, and
16 eventually she came in. But that is when the
17 framing that I need to state, it is more with
18 difference of groups, it's very important.
19 Because we have no -- we know how we
20 understand, positive and negative, but we have
21 no clue how different groups understand it.

22 So, it can mean life and death for

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1 some people. So I'm glad you brought that up.

2 CHAIRMAN FISCHHOFF: Okay.

3 Christine, Mike, and then Musa.

4 MS. BRUHN: John, I want to thank
5 you especially for that last list at the end.

6 And I'm sorry we don't have it in our papers,
7 but I will look forward to seeing it on the
8 minutes as we get posted. But when you went
9 through it, I was thinking right on for each
10 one of them. So, thank you for putting that
11 together.

12 Now, I wanted to make a comment on
13 relative comparisons. Should you compare
14 risks from one topic to -- from one category
15 to another. I know it's often in the
16 literature they suggest don't do relative
17 comparisons. My colleagues and I tested this
18 in the area of pesticide risks with parents of
19 young children. And we compared the residues
20 that could be on fruits and vegetables with
21 driving a car under certain circumstances, or
22 eating a peanut butter sandwich on certain

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1 circumstances.

2 We had six or seven relative
3 comparisons. And the results from this where
4 people appreciated having additional
5 information. Because it put the risk in
6 comparison. So if that showed them that the
7 risks for many residue in, on fruits and
8 vegetables was indeed very low, and even
9 though it was still there, it was low. They
10 didn't find all of the risks credible.

11 They didn't believe there was any
12 risk from eating peanut butter sandwich, other
13 than perhaps choking. And this again goes to
14 one of Ellen's points about people come from a
15 different context than you. I did this with a
16 toxicologist, and of course, we were thinking
17 of apple toxin and mold. But the public
18 didn't know about that.

19 So, but the main thing from the
20 comparison was, that was additional
21 information and the people wanted all the
22 information they could get. So that was

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1 useful for them.

2 Now, one of your things that I
3 thought was very interesting, and you gave us
4 even slides on it, was the visualization of a
5 risk. Like the pie chart, and then in your
6 diagrams here, you have like two people with -
7 - two people lines with lots of other lines.
8 And I wanted to have a question for Ellen.

9 Has anyone tested visualization as
10 far as, does that give people a better concept
11 of relative risk? And does -- how does it
12 impact numerate and the less numerate
13 populations?

14 MS. PETERS: There's been some very
15 nice work done by N.G. Fagerlin and Peter
16 Eubel, Brian Sigmund-Fisher, and a few other
17 people at the University of Michigan, looking
18 specifically at things like comprehension of
19 numbers from tables, versus comprehension from
20 what they would call a pictograph.

21 Where a pictograph is basically, if
22 you can picture sort of a 10 by 10 table of

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1 squares. And you can then mark the number of
2 people at risk of a side effect, for example.

3 And what you can see is, you can see in that
4 pictograph, the number of people at risk, and
5 the number of people not at risk within a
6 single, fairly small space on a piece of
7 paper.

8 And what they find is, that people
9 tend to believe that tables are more effective
10 if you ask them. But they actually understand
11 more of the gist of the information if it's --
12 if the information is provided in one of these
13 kind of graphical formats, like a pictograph.

14 And it's fairly new research. I
15 don't remember if they looked at numeracy. My
16 expectation would be that it makes a bigger
17 difference for the less numerate people, and
18 that for the highly numerate, it doesn't make
19 as much of a difference, but maybe still,
20 makes some difference because it does provide
21 some of that context for them.

22 MS. BRUHN: That's very useful.

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1 Thank you. And I'm wondering, do we know that
2 much? If we -- are we ending up perhaps
3 misleading the public if we show a pictogram
4 that's based on averages, if there's a
5 situation that people with certain
6 circumstances are more at risk? And you know,
7 we're always making decisions here when
8 there's not complete certainty.

9 MS. PETERS: Yes, a very good
10 question. So, I mean, you're bringing up sort
11 of two different issues here. One is, we give
12 a precise number, but there's almost always
13 uncertainty around that number. So, that's
14 one issue. It's a very big issue. There's
15 actually a working group at the National
16 Cancer Institute that's just starting up
17 looking at these ideas of ambiguity, and how
18 do you communicate ambiguity and how do people
19 understand ambiguity.

20 There's actually not a lot known
21 about that. There's a little bit. And you can
22 -- we can talk about it offline. There's just

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1 a little bit known, and it's kind of in
2 sideline literatures. Unless Baruch knows
3 more about this. I'm hearing him down there
4 mumble a little bit. Did you want to kick in
5 there?

6 CHAIRMAN FISCHHOFF: No.

7 MS. PETERS: Okay. The second part
8 of your question was, we often present
9 information about the average person, or you
10 know across this Group of 100,000 that were
11 tested. But it may be that people who have a
12 particular physiological profile are more at
13 risk, or less at risk.

14 And you know, it gets at the idea
15 of using the best information that you have
16 available to help this particular patient make
17 the best informed choice. Sometimes what we
18 have is only that average. And I'm ignoring
19 the ambiguity at this moment. Sometimes what
20 we have is more targeted information, and you
21 know, I would claim, that if we can provide
22 that more targeted information, we should.

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1 It's some times quite difficult to
2 come up with though. That's easier said than
3 done. In terms of a federal agency, they're
4 also often trying to provide information to
5 everybody. And they're trying to help people
6 as best they can. So if you're talking about
7 having the resources to send a single
8 communication out, that average is probably
9 what you should send out.

10 Maybe with a little additional
11 information if there really are some big
12 differences around physiological profiles or
13 gender or something like that.

14 MS. BRUHN: It's like Maria's
15 presentation. It worked well for lots of
16 people, but there were some specific groups
17 that it didn't work well with.

18 MS. PETERS: Right. Yes. Great
19 questions though.

20 CHAIRMAN FISCHHOFF: Okay. Mike
21 and then Musa.

22 MR. GOLDSTEIN: This is great. I

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1 love the interaction and the discussion.
2 Because I learn something every round. And
3 it's been -- I raise my hand, and I have
4 something say, but it's very different now
5 after hearing people. What I've learned from
6 Ellen is that, all methods of risk
7 communication have risks and benefits. That
8 there's no one way that we're going to find
9 that's going to work for all people.

10 And actually, I learned this from
11 reading Howard Gardner, who's a cognitive
12 psychologist. We have a cognitive
13 psychologist in the audience who may know him.

14 And he's the person who came up with the
15 concept of multiple intelligence and there is
16 evidence that people are different in terms of
17 their way in which they learn and understand.

18 Some people are more visual, some
19 people are more verbal. Yes, in general, we
20 can study population and learn the best way.
21 But it's not going to work equally well for
22 all people because of their differences. On

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1 the other hand, he also showed, that when you
2 show information in multiple formats,
3 comprehension increases and actually, that
4 gets translated into taking that information
5 and acting on it.

6 So, my view would be that we want
7 in the current level of understanding, we want
8 to provide as many different methods of
9 helping people to understand the meaning of
10 the information we're conveying as possible.
11 We want to continue to test to see what's the
12 best way. But it's never going to be the best
13 for every person, because there are
14 differences.

15 So, there's only so much that the
16 FDA can do. The FDA can gather information,
17 they can put it into formats that are
18 understandable and make those available for
19 patients and providers. But then, I do think
20 it's up to providers to fully take into
21 account, the specific needs of a given person,
22 given their culture and background, to help

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1 them to understand so that they make the
2 choices.

3 That kind of a conversation,
4 communication, is only going to take place in
5 the context of a relationship. And the FDA is
6 never going to be able to recreate that. They
7 can only promote that. So, I would argue that
8 we need to, again, take what John's core
9 statements have helped me to realize, that
10 this is what the risk is, this is what the
11 benefit is. There's risks and benefits.

12 Different people have different
13 levels of risks and benefits, because there's
14 uncertainty about that. So, here's what we
15 know. Refer people to credible sources, so
16 they can have the conversations that are
17 likely to enhance understanding and decision-
18 making. And train people who are having those
19 conversations to do it effectively. That's my
20 simplest way of putting this all together so
21 far.

22 And I'm sure it will change as we

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1 go around the room again.

2 CHAIRMAN FISCHHOFF: Lorrie had a
3 comment, and then Musa.

4 MS. MCNEILL: It gets in part to
5 what the last speaker was saying. But to get
6 back to Dr. Bruhn, when it comes to reporting
7 information in terms of numbers, it's a real
8 challenge, based on what we know and what we
9 don't know.

10 A very good example is an article
11 that appeared in the Wall Street Journal
12 today. I think it was posted on line last
13 night. It was an interview that one of the
14 subject matter experts in my center did, on
15 Rota Teq vaccine, which is a Rota virus
16 vaccine. A similar vaccine was withdrawn from
17 the market, back in 1999 because of an
18 increased rate of a specific, serious adverse
19 event, following administration, vaccine
20 administration.

21 So the reporter from Wall Street
22 Journal had submitted a Freedom of Information

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1 request for adverse event data and had gotten
2 all of these numbers and wanted some help
3 understanding what they meant. The interview
4 itself was highly technical, because Dr. Ball,
5 who heads our biostatistics office, had to get
6 into the weeds of explaining relative
7 reporting rates of the current vaccine, versus
8 the previous vaccine, and all of the caveats
9 of what we don't know.

10 We know how many doses are
11 distributed by the manufacturers. But what we
12 don't know, is how many are actually
13 administered. The numerator in the case, or
14 excuse me, the denominator, of the number of
15 doses distributed, is considered confidential
16 commercial information by the manufacturers.
17 So, while we know what that number is, we
18 can't tell the reporters or other
19 stakeholders.

20 So, it's really difficult to put
21 this type of information into context and
22 explain it why we say, we don't believe

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1 there's an increased risk based on what we
2 see, what we've seen. Dr. Ball was able to
3 explain this very well to the reporter, but he
4 was a highly educated, you know, on this
5 particular issue, it was as Bob said to me
6 afterwards, the most technical interview he's
7 ever done.

8 We often don't have the luxury of
9 time to do that with reporters. In this case,
10 he worked on the story for a couple of weeks.

11 He spoke with us, he spoke with the Center
12 for Disease Control. He spoke with the
13 manufacturer. He spoke with the World Health
14 Organization. So, it was somebody who had
15 time to develop the story and really get the
16 story right.

17 And Heidi could comment on this
18 more than I could, but oftentimes, when we
19 hear about an interview request from Heidi's
20 office, it's with about this much turnaround
21 time. The reporter has a deadline. They want
22 very specific, detailed information. Our

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1 subject matter experts may not be available to
2 provide that kind of context.

3 So, it's an added problem for us.
4 We want to get that information out there.
5 But it's hard to do it in a way that's
6 meaningful.

7 CHAIRMAN FISCHHOFF: Thank you.
8 Musa and then Linda.

9 MS. MAYER: So, I'm sitting here
10 trying to absorb and sort of filter everything
11 that we've heard through what I know best,
12 which is, how breast cancer patients
13 understand the risks and benefits of the
14 treatments that they choose, and what the
15 sources of their understanding really are.

16 And as best I can determine, apart
17 from the information which is usually -- I say
18 usually - incomplete, that they get from
19 their healthcare providers, they are also
20 making decisions based on anecdotes, stories
21 that they hear from other patients, and media
22 coverage of treatments that are emerging. And

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1 to some extent, from advertising. That's
2 probably more an issue for women with advanced
3 cancer.

4 But you see, breast cancer is
5 always in the news. I don't know -- I mean,
6 I'm aware of it because I follow it. But
7 there's a constant, sort of media attention,
8 on emerging breast cancer treatment, like
9 other major and common diseases. It's just
10 always there. It's also very feared. So that
11 creates a certain climate as well.

12 As a result of all of these factors
13 converging, and as a result of out not quite
14 being there in terms of what science
15 understands, we over-treat primary breast
16 cancer to a degree that's probably
17 unimaginable to most people. About three-
18 quarters of women diagnosed with breast cancer
19 do not need any additional treatment past
20 their surgery and possibly radiation to the
21 local area.

22 And yet, most of them are receiving

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1 very toxic drugs -- chemotherapy and hormonal
2 treatments -- that have a both very short,
3 serious -- short and long term consequences.
4 In -- and how they make those decisions is
5 often based on their emotional state. It's
6 based on their perceptions of safety, which
7 may or may not be true, on their perceptions
8 of effectiveness, which are almost always
9 exaggerated, and on their perceptions of what
10 everybody else is doing. That is, this is the
11 standard of care.

12 If ever there is an areas where
13 there is a lack of truly informed consent, I
14 think this is a perfect example of that. And
15 there are a lot of reasons. It's too complex
16 an issue to really talk about in detail here.

17 But all of the factors that all of the
18 speakers have brought up, in a way, come to
19 bear. The lack of numeric communication, the
20 lack of visual aids that might help patients
21 understand what their risk of recurrence is,
22 and what their benefit for choosing these

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1 treatments, the way in which treatment choices
2 are framed, the use of absolute versus
3 relative risks and benefits of the treatments
4 -- all of these factors come into play in the
5 most intricate way.

6 And so I'm sitting here thinking,
7 how could FDA have a positive influence in
8 these factors? And it just -- it seems to me
9 that to the extent that FDA can communicate
10 clearly in all these areas, and discuss -- I
11 suppose it's really in terms of individual
12 drugs I'm talking about here, and also
13 procedures, devices and so on, that are used.

14 As clearly as possible, that will offer so
15 much benefit not only to patients, but to
16 physicians as well, who are also at a loss.

17 We have one tool that is sort of
18 like a light -- it makes use of many of these
19 things. It's called Adjuvant! Online. And
20 it's a way for -- and it offers a visual aid
21 and clearly quantified information. A way for
22 an oncologist and a patient to sit down

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1 together and look very clearly at information
2 -- which is abstracted from the latest
3 clinical trials data -- at what the actual
4 benefits are from selecting treatments.

5 However, there is no risk
6 information incorporated. It's all benefits.

7 That -- so it's only, in a way, half of the
8 picture. And I'm just thinking that FDA could
9 play a really significant role, in providing
10 the real tools that would enable the
11 scientists who are constructing tools like
12 this to take it the extra step.

13 And that there really isn't any
14 other honest broker, if you will, who is in a
15 position to do that. To actually help provide
16 the numbers in a way that's transparent, both
17 to patients and to physicians. I was so
18 heartened to hear Paul Seligman say that with
19 ten drugs, they are trying the drug facts box.

20 Because that's exactly the kind of tool we
21 need, desperately need, I think.

22 CHAIRMAN FISCHHOFF: Thank you.

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1 It's 10:30 now. So, I'm going to take a
2 break. I've got the names of people down.
3 When we come back, we'll have an opportunity
4 for our open, public hearing. Again, if
5 anybody would like to speak, please see Lee
6 during the break. So, let me thank our
7 speakers and thank our panel, and we'll
8 continue this discussion in a few moments.

9 (Whereupon, the hearing in the
10 aforementioned proceedings went off the record
11 at 10:32 a.m. and resumed at 10:48 a.m.)

12 CHAIRMAN FISCHHOFF: Okay, we're
13 now going to have the public comment part of
14 the meeting. But before we start, I'd like to
15 have a thank you to Nancy 's daughter for the
16 brownies she's made available to the
17 committee, written into the official minutes
18 of the Food and Drug Administration's Risk
19 Communication Advisory Committee. Thank you.

20 And now, an official announcement.
21 Both the Food and Drug Administration, FDA,
22 and the public believe in a transparent

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1 process for information gathering an decision
2 making. To ensure such transparency, at the
3 open, public hearing session of the Advisory
4 Committee meeting, FDA believes that it is
5 important to understand the context of an
6 individual's presentation.

7 For this reason, FDA encourages you
8 -- the open public-hearing speaker -- at the
9 beginning of your written or oral statement,
10 to advise the committee of any financial
11 relationships that you might have with any
12 company or group that may be affected by the
13 topic of this meeting. For example, the
14 financial information may include a company's
15 or a group's payment of your travel, lodging,
16 or other expenses in connection with your
17 attendance at the meeting.

18 Likewise, FDA encourages you at the
19 beginning of your statement, to advise the
20 committee if you do not have any such
21 financial relationships. If you chose not to
22 address this issue of financial relationships

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

3 And I have two speakers and I'd
4 like each of you to state, or state your name,
5 and then speak directly into the microphone.
6 And the two speakers in order will be Cindy
7 Evans from Health Canada, and Jeffrey Sekondi
8 from AdvaMed. Please.

9 MS. EVANS: Thank you. Again, my
10 name is Cindy Evans. I work at Health Canada
11 and in the market of Health Products
12 Directorate. I'd like to thank Dr. Fischhoff
13 yesterday. He asked if I could just give a
14 few comments on the Canadian context.

15 And it's been my pleasure to be an
16 observer at this meeting. I've really enjoyed
17 listening to the conversations, both from the
18 expert advisory members, but as well as the
19 FDA panel members.

20 In addition to that, we've had the
21 privilege of having on-going dialog with Dr.
22 Ostrove and Dr. Zwanziger with regard to

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1 sharing our best practices, our informations
2 and the challenges that we're having around
3 the issue of risk communications.

4 Just to situate myself in Health
5 Canada, Health Canada is made up of a number
6 of branches, one of them being the health
7 products and foods branch. It has a scope of
8 responsibilities similar to what you heard
9 yesterday from the centers, in that it ranges
10 from foods, veterinary drug products,
11 pharmaceuticals, biologics, medical devices as
12 well as natural health products.

13 Within that branch, I work in the
14 marketed health products directorate, and the
15 scope of our responsibility is post-market
16 surveillance for pharmaceuticals, biologics,
17 natural health products and medical devices.

18 We've made risk communications on a
19 natural priority area for a number of years.
20 Some of the things that we've been working on
21 are to make risk communications. Both our
22 products and our processes more consistent and

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1 more transparent. A number of years back, we
2 issued a guidance document for industry on the
3 development and issuance of health
4 professional communications and public
5 communications.

6 So, that was outlining Health
7 Canada's expectations for both form and
8 content and the nature of distribution for
9 Dear Doctor letters, and notices to hospitals
10 that are issued by the industry. And as well,
11 we put forward the principle that there should
12 be a companion piece for that called a public
13 communication that in lay language is the same
14 messaging, but designed for the public.

15 Because those dear healthcare professional
16 documents were made available on our website,
17 and we felt that that companion document was
18 really necessary.

19 In addition, last month we issued a
20 guidance document which explains the -- it has
21 a very long name. But it's essentially the
22 current risk communication document. What

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1 they are, and how we use them. So, for the 13
2 different types of risk communication
3 documents, ranging -- arranging all the way
4 from a public warning, down to an "It's Your
5 Health" letter, what we wanted to do, was to
6 bring some transparency and also some
7 predictability to the process.

8 So, what are the documents, what
9 are some of the considerations for when we
10 would use one or the other, and what are the
11 typical ways in which we distribute those.
12 So, again, we were quite pleased to be able to
13 issue that and we feel that's an initial step
14 for us in laying out a baseline of what we do.

15 Because we're also very interested, like the
16 FDA, in looking at those processes and
17 products, and how do we challenge them.

18 One of our important outreach
19 initiatives is the Medifact Canada Initiative.

20 And that consists of, we do have the Medifact
21 Canada website, and that's both for
22 information in and information out. So, it

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1 has the advisory's warning and recalls that
2 are issued are posted there. You can also get
3 the Canadian Adverse Reaction newsletter.
4 It's also to get information in, where people
5 can find information about adverse reaction
6 reporting, the ways in which they can report
7 why it's important, and provide their online
8 reporting there as well.

9 An important aspect as well is the
10 Medifact E-Notice. So, that's our list-serve,
11 where we're actively, proactively sending
12 stuff right out into the hands of Canadians.
13 And we're quite pleased that it's a
14 subscription over 18,000 subscribers to that
15 list-serve. A little smaller scale than on
16 the U.S. but we're pleased with that.

17 Another initiative just to share
18 with you. We have, in the branch, set up an
19 expert advisory committee on vigilance of
20 health products. And they're to have their
21 third meeting coming up the end of September,
22 and examining risk communications is one of

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1 the items within their mandate. So, we're
2 quite interested to follow the discussions of
3 this group as well, and we'll be bringing some
4 questions to REAC in the Fall, and we're quite
5 pleased that Dr. Ostrove will be joining us at
6 that meeting.

7 So, as I said, we have similar
8 challenges to those that you heard yesterday
9 from the centers. We see Health Canada as one
10 player in the healthcare system. We don't do
11 everything, and we can't do it all ourselves.

12 Health care is delivered provincially in
13 Canada, and the practice of medicine is
14 outside of our federal jurisdiction. And that
15 can bring challenges when you're getting into
16 the specific details of risk communications
17 and what you would want someone to do with
18 what you're communicating.

19 We also believe quite strongly that
20 risk communications is a shared
21 responsibility. So, it's Health Canada, it's
22 industry, it's our healthcare professionals

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1 and it's also consumers, have an important
2 role to play. Some of the things that we're
3 looking at is as I said, we'd like to
4 challenge and examine the effectiveness of our
5 risk communications. And that's a three
6 different levels. It's the documents
7 themselves, it's how we distribute them, and
8 that's both our primary distribution but also
9 there's a number of different ways of
10 secondary distribution that I don't think
11 we've look adequately at in terms of how we
12 could use our, and work with, our healthcare
13 organizations and consumer and patient
14 organizations to better get our messages out.

15 And the third is the uptake. So,
16 not just enough to say we sent 200 things out,
17 but was it received, was it understood, did it
18 result in any change in practice. And that's
19 easier said than done. And we're again, quite
20 interested to hear what the ideas are around
21 examining effectiveness. Because it can be a
22 challenge to say, what would success look

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1 like. Because success wouldn't always look
2 like a drop in prescribing patterns. So,
3 again, how do we figure out the best ways to
4 assess the effectiveness at all of those three
5 levels.

6 We're very interested in the topic
7 of emerging risks as well. What do we
8 communicate. How soon do we communicate and
9 how many messages would be too many on a
10 single topic. So things like, you know, on
11 the pet food, or on the Heparin, when the
12 situation is unclear at the front end, when do
13 we come out with information and what
14 information is helpful to share at what
15 stages.

16 And just lastly, we're also very
17 interested in the issue of relativity of risk,
18 or how do we best put risk into context for
19 Canadians. And again, these are not simple
20 questions. If they were simple, we would have
21 solved it on both sides of the border and just
22 shared our information.

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1 So, again, I'm pleased to be here
2 as an observer at your meeting and we really
3 look forward to hear the recommendations of
4 the committee as well.

5 CHAIRMAN FISCHHOFF: Thank you very
6 much. Would you be willing to take a question
7 or two, or if we have a question or two?

8 MS. EVANS: Absolutely.

9 CHAIRMAN FISCHHOFF: Please,
10 Madeline.

11 MS. LAWSON: Thank you for your
12 presentation. I'm just very interested in how
13 you work with the health professional and
14 consumer organizations in aiding you to get
15 your message out to the public?

16 MS. EVANS: We do have on-going,
17 regular, what we refer to as bi-lateral
18 meetings with these groups. So, for example,
19 we would meet the Canadian Medical
20 Association, the Canadian Pharmacist
21 Association and there's other patient groups
22 that we would meet with.

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1 They, themselves, have good
2 relationships within their own organization.

3 So, for example, their secondary
4 distribution, they will point to the
5 advisories on our website. They will often
6 redistribute. So, there are organizations
7 like NAPRA, who are the National Pharmacy
8 Regulators, who will take our e-notice, and
9 also share them with their groups.

10 So, there's a full range of
11 secondary distribution that's effective. But
12 also, we do get on-going feedback from them on
13 our -- for example, when we're developing
14 guidelines on risk communications. They're
15 input is extremely helpful to us. Again, to
16 bring that practical perspective.

17 CHAIRMAN FISCHHOFF: Okay. Thank
18 you very much. And our second speaker is
19 Jeffrey Sekondi from AdvaMed.

20 MR. SEKONDI: Good morning. My
21 name is Jeff Seconda from AdvaMed. AdvaMed is
22 a trade association that represents the

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1 medical device industry. And I want to give
2 my compliments to the committee and to the FDA
3 for their participation. It's been very
4 insightful and I think in some ways, in a very
5 positive way, provocative discussions.

6 I hadn't intended to say anything,
7 but again, the discussion was interesting and
8 provocative. And I do want to make three
9 points. The first is, I believe Ms. DeSalva's
10 prevention was marvelous in describing the
11 best practice of corporate response to crisis
12 and risk communication. However, I also want
13 to point out that -- and I believe that Lynn
14 Rice from FDA pointed out also -- that 75
15 percent of the medical device industry is
16 made up of small manufacturers, with as few as
17 30 or less employees.

18 And whereas, the portrait that was
19 portrayed is absolutely the pinnacle, it is
20 absolutely beyond the means of the vast
21 majority of manufacturers. And I think this
22 just goes to, you know, reinforce the

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1 necessity for effective risk communication and
2 that it starts at the lowest level, goes to
3 the highest level.

4 And the second point I would want
5 to make in that regard, in reference to Dr.
6 Paling's concept that the FDA has a
7 responsibility to shape the communications: I
8 think this is absolutely a key point. And I
9 would direct this to FDA. The FDA mission is
10 well-known, is to protect and to enhance the
11 public health.

12 And I think that the effective risk
13 communication is the absolutely integral part
14 of that process. When it comes to FDA putting
15 out the message, that's important. But as
16 we've been hearing time and time again, and as
17 citizens of the media age, we all know that
18 the real communication doesn't take place --
19 doesn't come necessarily from the source of
20 the information, but rather from the
21 transmitters of that information.

22 And I think that FDA should take a

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1 special responsibility in training the media
2 as to what FDA means, what are the terms mean,
3 what are the relative priorities and risks,
4 and this can't be a casual thing. This has to
5 be part of the core mission of FDA, in
6 enhancing and protecting the public health, to
7 be able to have effective partnership with the
8 media to get a real message out.

9 And I would also say that in
10 addition to the media, the financial community
11 is, I think, not necessarily well-understood
12 as being a very, very important communicator
13 of information. When there's a crisis that
14 goes out, you know, you might read about it in
15 the newspaper and run around and say, "Oh, my
16 gosh."

17 But, if you're an investor and
18 there is a crisis statement that goes out,
19 then that's going to have a material effect on
20 you and therefore, the financial community is
21 a critical part of the dissemination of this
22 risk communication.

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1 And finally, I want to refer back
2 to the statement that Dr. Maisel made
3 yesterday, representing the Heart Rhythm
4 Society. And AdvaMed is completely in concert
5 with Dr. Maisel's presentation in terms of the
6 term "recall." I think that it's a barrier to
7 effective communication. And I -- and
8 honestly, I -- all the metaphors that we've
9 heard and means of communication, I had in
10 mind a particular metaphor for the concept of
11 the term "recall."

12 And that is, if you have a bump in
13 the sidewalk, and you want to warn people not
14 to trip on it, then if you put a barrier up
15 that covers the sidewalk, then you have an
16 option of either going around by stepping into
17 the street, or you can walk around, up on
18 private property. And the fact of the matter
19 is, that very often, if it is in fact a bump,
20 then you don't need a barrier to prevent
21 people from passing over it. You can put up a
22 warning sign. And I think that's, when all is

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1 said and done, the term "recall" might be part
2 of the FDA lexicon, and it might have some
3 legal ramifications. But that doesn't mean
4 that it can't be changed, either from a legal
5 perspective in regulation, or very
6 practically, in the nature of the way that FDA
7 communicates and uses that term.

8 Instead of putting the recall in
9 red letters in a box on the paper, it can have
10 urgent safety notification, which are very
11 communicative terms that are well understood.
12 And then if you have to put into the footer,
13 you know, pursuant to, you know, Part 7, is a
14 "recall."

15 It all depends on how it's framed.
16 And I just think that it's a unnecessary
17 impediment to effective communication. Thank
18 you.

19 CHAIRMAN FISCHHOFF: Thank you.
20 Are there any questions for the speaker?
21 Okay, AnnaMaria.

22 MS. DESALVA: I'll just quickly

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1 say, thank you so much for your comments. And
2 I should have actually acknowledged, and your
3 comments remind to acknowledge that what I
4 presented certainly was sort of a broad best
5 practice. I certainly do understand the
6 points that you're making relative to the
7 scope of the activity that a smaller company
8 wouldn't really be in a position to undertake.

9 But for demonstration of, you know, how we
10 apply these strategies broadly in the time
11 that I had, I just wanted to look at the
12 fullest illustration of it.

13 But your point is extremely well-
14 taken.

15 MR. SEKONDI: It wasn't a
16 criticism. It's was just an observation.

17 MS. DESALVA: I understand. No, I
18 understand, thank you. Thank you.

19 CHAIRMAN FISCHHOFF: Thank you very
20 much. So, we have the rest of our meeting to
21 come up with -- to continue to come up with
22 recommendations for FDA. We have particularly

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1 in our two talks today, we had a number of
2 quite concrete proposals.

3 Let me just direct your attention.
4 This will be in the folder for all of the
5 committee members. I guess it would -- I
6 guess it's probably on -- I don't know, is
7 this out there for...?

8 So, we have four questions here.
9 Rather than read them, I'll allow them, just
10 sort of take a look at them and see some of
11 the classes of recommendation that we might
12 come up with. But we're also free to think of
13 other -- of other things.

14 So, let me, before -- to kick this
15 off, let me -- I'd like to make a comment,
16 some sort of "to connect" comments that David
17 and Musa and Ellen and some of the others
18 made just before the break. So, I think we've
19 had -- I have to make certain that a half an
20 hour doesn't go by without talking about
21 evaluation. But I think we've had an hour go
22 by without talking about staffing.

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1 And so let me say I think that, so
2 the question of how do you deal with evidence
3 -- I mean, we have common sense evidence. You
4 know, sort of every day evidence of people's
5 difficulty with numbers. We have a growing
6 research literature about forms of innumeracy
7 and its correlates, and its extent. We see
8 that there's -- that we're sort of dead in the
9 water if people don't know how large the risks
10 and the benefits are, and how good the
11 evidence are.

12 And so how do we reconcile that?
13 And I think that a necessary, but not
14 sufficient condition is to have as part of the
15 research group, people who are intimately
16 familiar with the research literature. It
17 gives you a few things. One, is it gives you
18 access to whatever else is out there.

19 So, you see, we have several
20 experts here, and we're checking with one
21 another, whether or not you've heard of
22 anything. So, if you've read a few papers,

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1 you've just seen a tip or less than a tip of
2 the iceberg of what's out there. So, you want
3 access and you want people who can call up
4 other people who can bring that in.

5 And without people who are trained,
6 there's really no way that that can happen.
7 And they have to be there, you know, in real
8 time as the projects are being developed, you
9 know, in the same way that you need your
10 collaborators to be there in real time to see
11 where you've gone astray.

12 Second thing that people who are
13 familiar with the research literature can give
14 you, is they can give you the context for
15 understanding the research that you're seeing.

16 So for example, a standard technique,
17 particularly in psychology, is to create
18 conditions that magnify biases. That is,
19 much of psychology is built on finding ways in
20 people, in which people make mistakes.
21 Because those tell us something about the
22 systems in which -- that generate their

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1 behavior.

2 So, if you think about -- a lot of
3 perception research has been informed by
4 optical illusions, because it shows you things
5 you wouldn't already see. The fact that you
6 can generate reliable, theoretically
7 informative optical illusions, doesn't really
8 tell you that much about how good people's
9 perceptual systems are in everyday life. And
10 a perceptual system, you just don't know how
11 often we're challenged. You don't know what
12 kind of prosthetics we've developed, or aids
13 we've developed to overcome things, how we've
14 engineered our surroundings so that they don't
15 mislead us.

16 So, one needs people who know the
17 literature, who can tell you whether, you
18 know, this is a robust, theoretically
19 informative experiment, hothouse phenomenon.
20 We can show you problems, but they may --
21 sometimes they're big, or sometimes they're
22 not. You really need somebody who knows the

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1 literature and will look at it candidly.

2 And I would say that people, as one
3 of them, you know, people who scientists are
4 totally enamored of their phenomena, and we do
5 tend to get carried away with the importance
6 of whatever we study. And if we study biases,
7 we see biases all the time. They're really
8 robust to us. And people look -- can look
9 terrible if we don't catch our breath and
10 think about the context within which they are.

11 Second thing, something that we --
12 the behavioral researchers can't do by
13 ourselves, is to understand the sensitivity of
14 the context to the kinds of problems that we
15 have. So we can give you a best estimate of
16 you know, a lot of uncertainty, but imagine we
17 can give you a best estimate of how numerate,
18 how well people are going to be able to
19 process quantitative information in a setting.

20 You, who know the, you know, the
21 experts and the decisions will tell us whether
22 or not that's good enough. You know,

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1 sometimes the gist will get you to the right
2 answer, and sometimes you need really precise,
3 precise information. So you need not only to
4 have the people who know the research, but to
5 have them in a context that will discipline
6 them.

7 The third thing is that you need
8 people who know the research to tell you how
9 good -- whether people have been given -- how
10 good the communications have been. So, people
11 can perform badly because they've gotten lousy
12 communications. And you know, as I guess
13 Ellen began her talk, we all believe that we
14 all exaggerate how well we're communicating.
15 It applies to me right now.

16 We all exaggerate how well we're
17 communicating. So, we put out a message. It
18 makes sense to us, and if people don't
19 understand it, we think, "oh, they're
20 innumerate, they have low health literacy,
21 they just can't handle it." So, you need
22 -- you need to be, need to look hard to see

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1 whether the problem is with the receiver, or
2 with the transmitter. And you know, you
3 really need the expertise. You need the
4 empirical evidence of evaluation, but you also
5 need people who have that kind of expertise.

6 And then finally, you need -- if
7 you find the situation where individuals are
8 not, you know, you've given it -- you're in a
9 situation where you've used the best of the
10 science to produce the communication that will
11 provide the information that's essential to
12 people's decisions, and people can't reach the
13 level of proficiency that you would like for
14 them to give informed consent for whatever
15 product there is, that they're being asked --
16 decision they're being asked to make, then
17 you need to think about, what's the system
18 within which those people are embedded?

19 So that is, maybe I can't
20 understand the, you know, the financial
21 disclosure that I get from you know, my
22 pension plan. But am I one or two degrees of

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1 separation from somebody who can decode that
2 for me? Or, if I can't understand Medicare
3 Part D -- the 50 firm by 80 option matrix
4 that's been created for me -- am I within one
5 or two degrees of separation for somebody who
6 can do that?

7 And for that, you need somebody,
8 say like David Moxley who's not here today,
9 who understands the social context within
10 which people actually make decisions, to see
11 whether you can engineer it. So, we're in big
12 trouble. Medicare Part D maybe one of those
13 examples, where nobody is within the ball park
14 of anybody who can make any sense out of it.

15 But I think that with a lot of
16 situations, you know, as Musa was saying, if
17 you can get the quantitative risk and benefit
18 information that people need -- they've got a
19 friend, they've got a confidant, they've got a
20 physician, they've got an interpreter within
21 the medical press who can make that
22 comprehensible to them. So, I thought your

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1 point was very well-taken, and we require good
2 research and a systems approach to get as far
3 as we can in expanding people's envelope of
4 competence. And then, you know, being ready
5 to help them where it's too much, or to find
6 people who will help them.

7 So, let's -- Marielos.

8 MS. VEGA: This question is for
9 Nancy. Is there a regulatory issue for the
10 FDA not to accept help offered? For example,
11 when we were talking about having the students
12 at universities help in the FDA with the
13 research agenda, is there a regulatory issue
14 in accepting the help freely?

15 MS. Ostrove: There may be -- I
16 don't think it's a -- actually with FDA, there
17 may be regulatory issues. It depends on who
18 the help is coming from. Okay? Because there
19 are sources that are allowed, and sources that
20 are not allowed. You know, it gets to
21 problematic if the help is being offered by a
22 source that we regulate, like industry.

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1 And there are all kinds of
2 regulations that are not necessarily FDA
3 regulations, but are government regulations
4 that kind of go around the ethics and the
5 conflicts of interests, and the appearance of
6 conflicts of interests. So, we have a whole
7 ethics group, you know, that is there to help
8 us kind of navigate those waters.

9 So, I can't give you a real solid
10 answer on that, except to tell you that, you
11 know, that's my general sense. Lee probably
12 has more about -- knows a little bit more
13 about this than I do.

14 MS. ZWANZIGER: And I would just
15 say, that it -- as Nancy suggested, it would
16 depend a lot on what the details are. I
17 wouldn't -- I would say, it's always worth
18 bringing up a specific case to think about so
19 that we can get some more specific answers.

20 CHAIRMAN FISCHHOFF: Madeline.

21 MS. LAWSON: I, just along the same
22 line. I just wondered if through the IPA, and

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1 I forgot what that -- Interpersonal Government
2 Act, that governs exchange or details a
3 personnel from the agency to other
4 institutions -- and then on the other hand,
5 you can receive experts from academic
6 institutions to come on assignment to federal
7 agencies. I think that's still in effect.

8 I wondered if you could accomplish
9 some of this with maybe not necessarily
10 students, all right, well, probably still
11 students, through the academic institutions,
12 if you could -- if this could be governed
13 through the IPA, where you could bring in
14 experts from academic institutions to work on
15 some assignments?

16 MS. : I can tell you that I know
17 that the Federal Trade Commission, you know,
18 brings people in to work say, for a year or
19 so. I believe that Craig Andrews, for
20 instance, worked on an IPA with the Federal
21 Trade Commission at one point. And actually,
22 I think FDA has done that as well, at least in

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1 the past. We have also had, and they become
2 special government employees, we have a couple
3 of researchers now from American University,
4 who are working in, with different parties of
5 FDA.

6 One you guys heard about in our
7 last meeting, Jack Swasy, works with the
8 Division of Drug Marketing, Advertising and
9 Communications on research they're doing. And
10 I believe Anna Mitra, also from American, is
11 working with the foods group. So we do have
12 the capability. Those people then become
13 special government employees, though. And
14 then, they're kind of separate, in terms of
15 from their organization.

16 So, if you're looking to get
17 someone who can -- I mean, in some ways, they
18 can come in, and then they can go back out
19 again. And then do stuff that they know is
20 helpful, you know, within the context of their
21 academic positions. So, there are different
22 ways of doing this, and there are different

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1 ways of getting that expertise in. And I
2 think that we need to explore that more.

3 And that's kind of the bottom line,
4 is that we -- and that should be part of a
5 strategic plan as well, you know, to explore
6 how to get that external expertise in for
7 specific projects, or for specific time
8 frames. And we'd be very interested in
9 talking with any of you who are interested,
10 you know, or have people who are interested in
11 doing that kind of thing. Because as Lee
12 said, we need the details in order to figure
13 out how to work things out.

14 CHAIRMAN FISCHHOFF: And I would say,
15 that if there's -- we would hope -- increasing
16 demand for people who can do that kind of work
17 within FDA, having somebody work here and then
18 go back to the academic community is a way of
19 producing some of the supply. Because people
20 can do the work in a better, informed way.
21 So, that's really good suggestion.

22 I have Linda, Ellen and Mike from

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1 before the break, if you remember.

2 MS. NEUHAUSER: So, I've got a
3 comment and question. But first, Baruch, I
4 first wanted to ask you, I thought that was a
5 very good idea about thinking about real-time
6 research help. And I wondered, did you have a
7 specific idea for how you could put together a
8 group of researchers that would be relevant?
9 And I don't know, if you had an idea of what
10 process could be used to get this real time
11 help.

12 CHAIRMAN FISCHHOFF: Hiring.

13 (Laughter.)

14 MS. NEUHAUSER: Okay. Thank you.
15 That was very succinct. You know, hiring,
16 okay. Done.

17 On another issue, I've actually two
18 other things. And unfortunately Ms. Rebello
19 from the Office of Public Affairs had to
20 leave. But she did mention a problem that is
21 very common among federal agencies, and that's
22 the problem of being able to translate or

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1 adapt information in other languages. And so,
2 as I understand it, the problem here is that,
3 for example, that office does not have a
4 specific person who does translations or
5 adaptations in Spanish.

6 And then you, the further problem
7 is, that Spanish is made up of many linguistic
8 variations, so you have to take those into
9 account when you produce a final document like
10 a press release or any of the other documents
11 that FDA produces.

12 So, what I wanted to suggest is,
13 this is a solvable problem. Again, it's a
14 strategic issue. But, that I have not seen
15 this in the agencies that I've been involved
16 within in the federal government, I have not
17 seen any of them address this problem in a
18 really effective way. And I've only been
19 involved with health-related agencies, so
20 others may have done this well.

21 But I do want to suggest, it's
22 solvable without a lot of money, and two

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1 things are needed. One is, either internal
2 again, hiring. Hiring a person who is
3 experienced in translation/adaptation. And in
4 particular, in Spanish. And secondly, setting
5 up a process for dealing with linguistic
6 variations. And I don't want to go into
7 detail about that right now, because it would
8 take time. It is a strategic issue. But
9 there are ways to bring into concert the
10 people with skills in -- let's say, across
11 various Spanish linguistic variations, and
12 produce a neutral Spanish document without a
13 lot of problems and expense.

14 But it would take a process that's
15 put into place. So, wanted to recommend that.

16 And I think it would be great if
17 the FDA took leadership on solving a problem,
18 and then becoming a model for other agencies
19 on how to do this. Like I say, you have so
20 many problems that are so complex, this is one
21 you could deal with, at least in Spanish, and
22 relatively quickly, I think.

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1 I know the hiring -- new budget
2 will be coming up. And so there's
3 possibilities of making that a priority. So
4 that was one thing.

5 The other is, I wanted to ask --
6 AnnaMaria DeSalva, I really enjoyed your
7 presentation. And the best practice issues
8 that you brought up are so important. I
9 wanted to ask you if -- how you view what you
10 described as best practices, or good
11 practices, as being relevant to changing
12 anything at this agency.

13 MS. DESALVA: Thank you. It's a
14 great question. You know, I think the -- the
15 central question with respect to the case I
16 presented is, you know, what's the opportunity
17 for industry and the agency to work together
18 in a way that's incredibly constructive and
19 really serves the interests of the patient.

20 You know, so I know that's what
21 everyone wants to do, and that happens in a
22 lot of cases. In my own, strictly personal

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1 experience, I've had very good experiences.
2 And I think that that has a lot to do with the
3 kinds of organizations I've worked with, with
4 the quality of the people I've worked with,
5 with trust. Trust is very important. And I
6 think when there's you know, prior working
7 relationship and kind of people are known to
8 each other, it makes things a lot easier.

9 But you know, I know that there's
10 room for improvement. And so, I do think
11 there is, if Heidi had been able to stay, it
12 would have been wonderful to have this
13 exchange with her. It is to understand, what
14 should best practice be? What should the
15 state of play between the agency and industry
16 when communicating around emergent risk,
17 around, you know, major events.

18 And I don't think that's been well-
19 defined. I think it's very much a work in
20 progress. I think that there's a lot of
21 opportunity to get the right people together
22 to explore that very issue and define what

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1 best practice is.

2 I mean, I think with respect to the
3 case I presented, it's a nuanced point, but
4 nonetheless, a very deliberate point, that
5 when you consider that moment in time when
6 it's time to take the field action, you'll --
7 and if you remember, the sequence of events is
8 such, that the strategy is basically baked
9 before the company communicates it to the
10 agency.

11 And there's several points in that
12 time line, in which there's very substantial
13 exchange with the agency in terms of the
14 investigation, in terms of the letter that
15 goes out to surgeons to describe the
16 investigation. I think technically that
17 letter, because it talks about adverse events,
18 adverse events, and talks about
19 investigation, I think technically that's a
20 recall. I don't -- Nancy, I don't know.
21 Maybe you would advise differently. But I
22 think that, according to the regulations,

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1 "recall" is a broad term.

2 In the medical devices world it
3 actually does relate to any change,
4 correction, you know, or change in
5 notification about adverse events experience.

6 But so there are several points in time where
7 there would be very significant exchange with
8 the agency. But when it's time to actually
9 initiate the field action, and mobilize all
10 those risk communications, you know, a company
11 may feel like it's really important to have
12 everything basically ready for execution.

13 And the reason for that is, by the
14 time that exchange occurs, it's going to move
15 very rapidly. And there may be reasons to
16 revisit that. I mean, in certain situations,
17 it may be wise to stage the communication or
18 to be able to have a window of opportunity to
19 you know, communicate with surgeons first,
20 before a broader public communication happens.

21 I think those questions are on the
22 table. It's like, how do you get to the right

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1 outcome? What's the best way to get to the
2 best outcome? And I'm sure that there's a lot
3 of discussion that that could occur around
4 that.

5 So, I don't' know, you know. I
6 think that there are always opportunities
7 between the private sector and the public
8 sector to exchange best practices. And I
9 think that I've always greatly enjoyed my work
10 in the public sector and I've taken many of
11 those lessons with me into the private sector,
12 and vice versa. So, you know, I think that
13 resources being different, circumstances being
14 different, it isn't always apples to apples.

15 But I'm sure that the commitment to
16 preparedness, I think, is to answer your
17 question more directly, is paramount in
18 communication. There is -- you don't always
19 know what you're dealing with. But if you can
20 anticipate to some extent what you're dealing
21 with, you know, 80 -- 70 or 80 percent of what
22 you need to do can be started, you know, well

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1 in advance. And that means the quality of
2 your communication is going to be that much
3 better when you're not having to invent it
4 right in the heat of the moment.

5 So, those are just some thoughts in
6 response to your question.

7 CHAIRMAN FISCHHOFF: Yes. Maybe I
8 could followup on that. How do you make --
9 maybe you've just done it, but so how do you
10 make the business case you know, that in terms
11 of the, you know, there's a public rather than
12 a private firm, that the business case that it
13 is, you know, the agency's -- it's products,
14 it's product is the protection of the American
15 -- protection of the health of the American
16 public --

17 MS. DESALVA: Yes.

18 CHAIRMAN FISCHHOFF: -- the well-
19 being of the industries that try to serve the
20 American public, and as a means to those ends,
21 it's own reputation?

22 MS. DESALVA: Absolutely.

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1 CHAIRMAN FISCHEHOFF: And that
2 communication is strategic communication, is
3 essential to all of those you know, how do you
4 -- maybe you just made the case. But how do
5 you -- but it sounds like you're not always
6 successful in making the case.

7 MS. DESALVA: Sure.

8 CHAIRMAN FISCHEHOFF: What are some
9 of your strategies for that strategy?

10 MS. DESALVA: Your -- it's an
11 incredibly relevant question. And there --
12 earlier in my career, I'm not so old, but I'm
13 old enough to go back far enough to think
14 about the times when communication wasn't that
15 central in the industry, or it was sort of a
16 peripheral discipline. Or, it was -- if it
17 wasn't peripheral, it was thought of second,
18 or third, or fourth or fifth in the process.
19 And you know, I see a change where it's
20 thought of first, and it's really prioritized.
21 And it's because the industry for the most
22 part, understands how central it is to the

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1 business.

2 So, the way that those cases have
3 been made, have a lot to do with failure.
4 Have a lot to do with just, you know, painful
5 experiences where you know, there's been undue
6 risk and pain and suffering in many different
7 ways, either to patients, or to the business
8 and to corporate reputation.

9 So, the equivalent, if we think
10 about it, from FDA's perspective, I mean, for
11 the agency to have some wild successes and to
12 be able to clearly demonstrate the power and
13 impact of its communication in terms of
14 protecting the public safety and health, and
15 interest, and to be seen as you know, just
16 very effective agent for that kind of change
17 and a partner, you know, to the private in
18 managing major risks, would be very powerful.

19 And it's why I asked some of the
20 question. I mean, we're all asking questions
21 about evaluation. I know it gets very
22 tiresome, because we all know what the

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1 challenges are there. But especially this
2 area of emerging risk communication, I just
3 think for the agency, if somehow it were
4 possible for the agency to blase a trail
5 there, and to really make that a priority and
6 say, you know what, we are in a new age of
7 transparency and accountability in
8 communication.

9 And there is going to be much more
10 emerging risk information. And we're not just
11 going to you know, put it out there and allow
12 all the downstream effects to occur. We're
13 going to proactively manage it, and we're
14 going to demonstrate and show, you know, how
15 we can contextualize it, and help a variety of
16 stakeholders interpret that risk and use it in
17 an intelligent way, and really minimize the
18 potential disruption it can cause.

19 And then, we're going to describe
20 that and in such a way that you can advance
21 knowledge and practice. And that becomes
22 broadly valuable to other parts of the

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1 government and then also certainly to the
2 industry.

3 But you do need some experience and
4 some data I think to be able to do that. To
5 be able to demonstrate the value, otherwise,
6 it's vague. And I think on the industry side
7 of things, I think that's -- they were just
8 very tangible experiences and data that have
9 allowed these best practices to develop.

10 MR. SMITH: Baruch, if I can share
11 some personal experience. Because in a couple
12 of different companies that I've been with, we
13 had the situation where we weren't prepared.
14 And in my role in heading up quality, that, I
15 felt like that sort of fell in my area. And I
16 think the same rationale and policies would
17 hold true for FDA.

18 And it really is, look at it as an
19 insurance policy. Because that's what it is.

20 Because it's going to happen. It's going to
21 happen on a Friday afternoon at 5:00 o'clock.

22 And if you're not prepared, it's going to be

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1 much worse.

2 And if you go and look at case
3 studies, and see which companies were
4 prepared, or which agencies were prepared, and
5 which ones weren't you know, time and again,
6 you see people sailing through it, in the
7 classic historical one is Tylenol when they
8 had that horrible contamination. And you
9 know, they handled it perfectly well. And
10 that's sort of the state-of-the-art.

11 And then there's many cases of, and
12 I'm sure AnnaMaria has many more, of just
13 disasters where leading to some companies
14 going out of business for some things that
15 just weren't handled very well. So, you know,
16 between looking at the case histories of what
17 preparedness can do for you in making a
18 difference of survival or not, and looking at
19 the philosophy of, it's an insurance policy,
20 when you look at it, it's a pretty cheap
21 insurance policy.

22 It is a pretty easy case to make

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1 when you're talking to rational people.

2 MS. DESALVA: It really is.

3 MR. SMITH: So, there are ways to
4 do it.

5 MS. DESALVA: I've had some
6 experiences with some smaller clients, you
7 know, clients who don't have lots and lots of
8 resources, or who maybe are earlier on the
9 curve of applying best communication practice.

10 And you know what can be challenging, is that
11 when you -- in working in that environment,
12 you know, your reward is, what doesn't happen.

13 So, you convince people to invest,
14 to spend the time and effort to have a high
15 level of a state of readiness, to implement
16 certain strategies and tactics that are great
17 insurance policy. And then your outcome is,
18 you averted a problem. And that's a challenge
19 in answering your question, which is, how do
20 you make the business case. It's -- you
21 probably do need to do some side-by-sides of
22 what happens when you don't have that state of

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1 readiness compared to what happens when you do
2 -- or doesn't happen when you do.

3 CHAIRMAN FISCHHOFF: thank you. I
4 have Mike and Ellen from before the break.

5 MS. PETERS: I was going to
6 followup.

7 CHAIRMAN FISCHHOFF: Okay.

8 MS. PETERS I'm curious what you
9 think, and maybe what some other people, Dr.
10 Smith, and maybe Dr. Ostrove think as well,
11 about communicating on-going risks, versus
12 communicating emerging risks. What are some
13 of the similarities, and what are some of the
14 differences?

15 If you've ever thought about this,
16 because in some cases, improving our
17 communication about on-going risks, will
18 probably also help our communication about
19 emerging risks. But there are also some
20 differences and probably some very important
21 key differences around time. But I'm curious
22 what your thoughts are around those

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1 similarities and differences?

2 MS. DESALVA: I think it's a great
3 point. And it's one that I've alluded to a
4 couple of times. You know, when you have like
5 an on-going situation to manage, which the
6 industry often does. I mean, all of these
7 products have risks. Some of them have a more
8 grave you know, risk-benefit profile than
9 others.

10 And I think that's the opportunity
11 to probably do the most thoughtful work. And
12 I think that's where oftentimes, sort of the -
13 - a lot of the theory and principles and
14 strategies that we've discussed in these
15 sessions, that's where the opportunity is, I
16 think, for the industry to mine those even
17 more than they currently do, and apply them
18 over a longer time horizon, and to understand,
19 or describe what their impact is.

20 You know, the industry is trending
21 in many cases, towards risk first
22 communication. I think that the industry is

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1 finding its way very much now in sort of
2 shifting the paradigm of how it communicates
3 and markets products. And in certain
4 categories, the pendulum has swung all the way
5 to risk first communication. And where the
6 emphasis is on making sure first that the
7 target understands the risk profile, and
8 discussion of benefit really happens strictly
9 within that context or as a secondary or even
10 tertiary you know, message.

11 And that tends to be in categories
12 where there's been very visible or difficult
13 risk issues. So, I think that there's you
14 know, a lot of progress being made there. The
15 difference, obviously, does tend to be
16 circumstantial. So, I think that moving those
17 practices and it's why I referred earlier to
18 the best case scenario, you have -- when you
19 get into tough situations like the case I
20 presented, you already have a repository of
21 knowledge. You've prior experience from the
22 on-going work you do in less acute situations.

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1 And you have those relationships in place that
2 you can draw from.

3 But the circumstances are very
4 different with emerging risk. And I don't
5 think best practice in emerging risk
6 communication has been defined. I think that
7 -- and I'd invite other people to comment who
8 may know more on this subject than I do. But
9 I think that that's a big priority both for
10 the agency and for the industry. And it has a
11 lot to do with what others and with what
12 John's talked about earlier about providing
13 context and making sure that people understand
14 what an emergent risk is, and what it's not.

15 And so I think that the opportunity
16 to educate there, and to educate at the level
17 of influencers and people who amplify
18 communication, like the media, you know, and
19 other key people, and the advocacy community
20 and certainly in the professional community,
21 so that emerging risk can be interpreted.

22 Because the burden on that

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1 information is going to I think, become, you
2 know, much more significant and much more
3 problematic if we don't really create some
4 focus there. But Nancy, I don't know if you
5 have anything to say about that with respect
6 to how the agency's looking at best practice
7 around emerging risk communication.

8 MS. OSTROVE: That's what the
9 agency is looking for.

10 MS. DESALVA: Yes.

11 MS. OSTROVE: I mean, clearly we
12 know that it's a challenge, and there's a lot
13 of room for improvement in terms of what we
14 can do. And you know, that's one of the
15 reasons that we're kind of bringing this topic
16 to the committee is to try to figure out where
17 to go and where there are some -- and we heard
18 some of this today. In terms of, maybe here
19 are some simple things that can be done. Here
20 are some things that we can think about and
21 that we need to do more research on, and here
22 are some things that whoa, we really need to

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1 think about, just think about and talk with
2 people more about and perhaps start more of a
3 wider dialog about.

4 But this has all been very useful.

5 Don't get me -- there's been some incredibly
6 useful information that's come out of this.
7 But I think that is the problem, you know,
8 that we don't have that yet. I don't think
9 anyone has that yet. And to the extent that
10 any kind of best practices, or good practices
11 or you know, some practices that have at least
12 some empirical basis, that we can bring to our
13 centers, to the rest of the agency, is exactly
14 what we're looking for.

15 MS. DESALVA: Could I ask -- go
16 ahead. You go ahead.

17 MS. PETERS: Actually, could I just
18 ask a followup question?

19 MS. DESALVA: Yes, please.

20 MS. PETERS: What I think I heard
21 from what you were saying, in terms of
22 similarities and differences between ongoing

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1 risks and emerging risks, is that you can
2 start with sort of a base of knowledge that
3 you can build up in a more thoughtful way when
4 you're looking at on-going risks. And that's
5 a lot of what we've talked about today.

6 Then, what's different in terms of
7 the emerging risk profile has to do with the
8 circumstances in the moment, which include
9 really important timing issues and things like
10 that. But those circumstances are often
11 surprises. So at that point, how do you come
12 up -- how do you prepare? You talked a lot
13 about having a preparatory strategy for this.

14 Other than the base knowledge that you can
15 come up with, how do you prepare for
16 circumstances?

17 MS. DESALVA: You know, in the best
18 case scenario, you know, there is enough
19 surveillance, there are enough systems in
20 place that you are aware -- you kind of know
21 what you don't know. You have a sense of what
22 could happen. Not because you have foresight

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1 into specific safety issues that are going to
2 happen in the future, but because you know
3 your business well and you know the nature of
4 the challenges and of the risks that are
5 fundamental, you know, to the business.

6 There's a lot of very incredibly
7 rapid work in the moment that happens. And it
8 comes together very quickly. And that's why
9 in healthcare communication, you know, it's a
10 little bit like being a firefighter. Because
11 you do get into these situations where you
12 have to extremely quickly, assess and collect
13 the right knowledge, and then consolidate the
14 right strategy. And it's not perfect. And
15 it's not, you know, you can apply all of these
16 principles and methodologies that have been so
17 well developed by the experts.

18 You have to hopefully have a base
19 of knowledge there, and then do what's very
20 practical in the moment. And put it together,
21 you know, very rapidly. So, in my own
22 personal experience, and I did mention this

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1 when I presented, I mean, I have kind of a
2 short list of people I know and trust. Some
3 of them are in my own organization, some of
4 them will be in my client's organization.
5 Some of them are external experts. And when
6 things are really breaking fast, and you know
7 that the communication if its not right can be
8 a big problem, it's a very consultative
9 process. And you just consult as rapidly as
10 you can, and use your professional judgment
11 and your prior knowledge.

12 But then also, be ready to course
13 correct. I think that's very important. So,
14 if you communicate about something and your
15 best efforts can still be a problem, just one
16 or more stakeholders. And then you have to be
17 able to shift and correct. So, it's fluid.
18 And you know, it -- there's a lot of judgment
19 involved, I think, professional judgment
20 involved in -- did you? Sorry.

21 CHAIRMAN FISCHHOFF: Let's see.
22 Marielos. No, wait. Yes. No, Mike, and then

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1 Marielos. And, Nancy rather, you still?

2 MS. OSTROVE: No, I --

3 CHAIRMAN FISCHHOFF: Oh, okay.
4 We'll do the clarification and then Mike and
5 then Marielos.

6 MS. OSTROVE: AnnaMaria, what I
7 kind of have written down in terms of
8 repositories. Repository of knowledge and on-
9 going relationships. I wanted to clarify --

10 MS. DESALVA: Yes.

11 MS. OSTROVE: -- if that's kind of
12 what you're talking about, that in terms of
13 this repository of knowledge, are you talking
14 about kind of understanding your, say your
15 consumer audience, your patient audience.
16 Understanding what they understand about the
17 product, what their needs are? Kind of, what
18 you've learned in terms of your marketing and
19 other things? So that you have a sense of how
20 they're likely to react to you know, emerging
21 information?

22 And also, with regard to on-going

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1 relationships, you know, again, having a
2 repository of groups that you would use to get
3 information out, or to potentially serve as a
4 third-party credible sources of information?
5 Is that -- because that's what I got, you
6 know, that's a piece of what I got out of what
7 you were saying.

8 MS. DESALVA: Yes.

9 MS. OSTROVE: And is that accurate?

10 MS. DESALVA: It is. It is. I
11 mean, on the commercial side of the business,
12 hopefully there's a lot of knowledge in the
13 organization, you know. And you just work it.
14 You just -- when you've got a tough situation,
15 you mine for the relevant insights from the
16 people who have them. You know. So that may
17 be certainly in the medical affairs group,
18 certainly in the marketing organization, or
19 sales, or even sales organization certainly,
20 where there's a lot of customer insights and
21 people will understand how information will be
22 -- what kind of a reaction new information

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1 will elicit.

2 All the market research that's been
3 done to understand what the unmet needs and
4 sensitivities are of patients. You know, Musa
5 asked the other day, how do you get people to
6 do what you want them to do? Well, it's --
7 that's insight-driven strategy. It's
8 understanding, you know, what people's
9 rational and emotional needs are, and how they
10 react in certain circumstances. And that data
11 doesn't always exist, but you're lucky when it
12 does and you should use it if you've got it.

13 And so it's sort of just a common
14 sense process of auditing different sources of
15 information and applying it critically. You

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