# THE U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE CENTERS FOR DISEASE CONTROL AND PREVENTION NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

convenes

MEETING THREE

## WORLD TRADE CENTER HEALTH PROGRAM

# SCIENTIFIC/TECHNICAL ADVISORY COMMITTEE

WEDNESDAY, MARCH 28, 2012

TELECONFERENCE

The verbatim transcript of the

Meeting of the Scientific/Technical Advisory

Committee held telephonically on March 28, 2012.

redacted as necessary.	
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### TRANSCRIPT LEGEND

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In the following transcript: a dash (--) indicates an unintentional or purposeful interruption of a sentence. An ellipsis (. . .) indicates halting speech or an unfinished sentence in dialogue or omission(s) of word(s) when reading written material.

-- (sic) denotes an incorrect usage or pronunciation of a word which is transcribed in its original form as reported.

-- (phonetically) indicates a phonetic spelling of the word if no confirmation of the correct spelling is available.

-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

-- "\*" denotes a spelling based on phonetics, without reference available.

-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

#### PARTICIPANTS

1	Committee Members
2	
3	Occupational Physicians with Experience in Treating WTC Rescue and
4	Recovery Workers:
5	Steven Markowitz, M.D.
6	Professor of Environmental Sciences and Director of The Center for The
7	Biology of Natural Systems at Queens College, City University of New York,
8	New York City.
9	William Rom, M.D., M.P.H.
10	Professor of Medicine and Environmental Medicine, New York University
11	School of Medicine
12	Director, Division of Pulmonary and Critical Care Medicine, School of
13	Medicine, New York University, New York City.
14	Occupational Physicians:
15	Robert Harrison, M.D., M.P.H.
16	Clinical Professor of Medicine, University of California, San Francisco;
17	Chief, Occupational Health Surveillance and Evaluation Program, California
18	Department of Public Health, San Francisco.
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20	Director, Occupational and Environmental Medicine Residency, Bloomberg
21	School of Public Health, Johns Hopkins University, Baltimore.
22	Physician with Pulmonary Medicine Expertise:
23	Thomas K. Aldrich, M.D.
24	Professor of Medicine and Director of The Pulmonary Training Program,
25	Albert Einstein College of Medicine, Yeshiva University, New York City.
26	
27	
	Poprocontatives of WTC Posponders:
28	Representatives of WTC Responders:

	This verbatim transcript of the WTC Health Program Scientific/Technical Advisory Committee, Committee Meeting held telephonically on March 28, 2012, has been reviewed for concerns under the Privacy Act (5 U.S.C. § 552a), and personally identifiable information has been redacted as necessary.
1	Stephen Cassidy
2	President, Uniformed Firefighters Association of Greater New York, Local 94
3	I.A.F.F. AFL-CIO
4	Valerie Dabas
5	Human Resources Analyst, Patrolmen's Benevolent Association of the City of
6	New York, Inc., New York City.
7	Guillermina Mejia, M.P.H
8	Certified Health Education Specialist, Principal Program Coordinator, Safety
9	and Health Department, American Federation of State, County, and
10	Municipal Employees, District Council 37, New York City.
11	Representative of Certified-Eligible WTC Survivors:
12	Kimberly Flynn,
13	Co-Founder, Director, 9/11 Environmental Action
14	Catherine McVay Hughes
15	Vice Chairman, Community Board 1 World Trade Center Redevelopment
16	Committee, Lower Manhattan World Trade Center Redevelopment, New
17	York City.
18	Susan Sidel, J.D.
19	Resident of New York City and volunteer WTC responder.
20	Industrial Hygienist:
21	John Dement, Ph.D.
22	Professor, Community and Family Medicine, Duke University Medical School,
23	Durham, N.C.
24	

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Toxicologist:
Julia Quint, Ph.D.
Research Scientist Supervisor II and Chief, Hazard Evaluation System and
Information Service (HESIS), Occupational Health Branch, California
Department of Public Health (retired), Oakland.
Epidemiologist:
Elizabeth Ward, Ph.D.
National Vice-President for Intramural Research, American Cancer Society,
Atlanta. (Advisory Committee Chair-Person)
Mental Health Professional:
Carol S. North, M.D. M.P.E.
Professor, Department of Psychiatry, University of Texas Southwestern
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Glenn Talaska, Ph.D.
Certified Industrial Hygienist, Professor, Department of Environmental
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New York University; Associate Attending in Pediatrics, Bellevue Hospital
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Designated Federal Official:
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Senior Scientist
CDC/NIOSH/Office of the Director
Cincinnati, Ohio

	P R O C E E D I N G S
1	(1:00 p.m.)
2	WELCOME AND INTRODUCTION
3	DR. MIDDENDORF: Okay, let's go ahead and start. Good
4	afternoon, everybody, this is Paul Middendorf. I want to extend a
5	warm welcome to the Committee members and
6	THE OPERATOR: Mr. Middendorf?
7	DR. MIDDENDORF: the members of the public who are on the
8	phone with us.
9	THE OPERATOR: Mr. Middendorf?
10	DR. MIDDENDORF: We appreciate your interest in these
11	proceedings. For those of you who have signed up to provide
12	public comments, they are scheduled to begin at one
13	THE OPERATOR: Paul?
14	DR. MIDDENDORF: Yes?
15	THE OPERATOR: This is the operator. You have to let me know
16	are you ready to start that recording?
17	<b>DR. MIDDENDORF:</b> Yes, we're ready to start the recording.
18	THE OPERATOR: Okay. Give me just one second for you. Okay?
19	DR. MIDDENDORF: Yes.
20	(Pause)
21	THE OPERATOR: Thank you, sir. Your call is being recorded.
22	DR. MIDDENDORF: All right. Thank you. For those of you who
23	have signed up to provide public comments, they're scheduled to
24	begin at 1:10 this afternoon so we'll start those in just a few
25	minutes. I have a few administrative details I need to go over.
26	For our public commenters who are on the phone, I just want to
27	review some telephone conference etiquette. We do want to
28	provide as much public access to these Committee meetings as
29	possible, but it's very important that the Committee members be
30	able to hear, and every member of the public who wants to hear
31	the proceedings be able to hear also. So just to remind you that
32	your phone should be muted until I call your name. If you don't
33	have a mute button on your phone, theoretically you can dial star-6

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	to mute your phone electronically. And to unmute it you can just
	repeat that, dial star-6 again. So for the public commenters, wher
	you've finished with your comments we'll ask you to mute your
	phone when you're finished.
	It's very important for us to remember why we're here and why
	we're meeting and set the appropriate tone for the meeting, so
	let's spend just a few moments in silence to remember those who
	were killed in the attacks on 9/11, and also those responders and
	survivors who have since died because of this.
	(Pause)
	UNIDENTIFIED: Paul, can you hear me?
	DR. MIDDENDORF: Yes.
	UNIDENTIFIED: I have two of your public speakers here in the
	room with me, T.J. and Jacques.
	<b>DR. MIDDENDORF:</b> Okay. Please keep your phone on mute until
	we ask for them to speak.
	(Pause)
	DR. MIDDENDORF: Okay. Thank you. We do just to remind fol
	that copies of the agenda for this half-day telephone meeting can
	be found on the Committee's website. If you're logged into the liv
	meeting or my meetings, it's the web conference part. You should
	also be able to see it there as well.
	Copies of the public comments that were received as of March 27
	around noon have been provided to the Committee before this
	meeting so they'd have a chance to see those. They will also be
	posted on NIOSH's docket 248, which is also available through the
	Committee's website.
	I'd like to do a roll call for the committee members now. So for the
	roll call I'll call out the name of each member and ask you to let m
	know that you're on the line. I'll also ask you to state whether or
	not there have been any changes in your employment or interests
	that would affect your conflict of interest. Also remind you that it
	you need to leave the call, please let me know when you leave and
	also when you return, to be certain that we continue to have a

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	quorum. Okay.
	So Tom Aldrich?
	<b>DR. ALDRICH:</b> Here, and there have been no changes in my conflict
	of interest statement.
	DR. MIDDENDORF: Okay. Steve Cassidy?
	MR. CASSIDY: (No response)
	DR. MIDDENDORF: Steve?
	MR. CASSIDY: (No response)
	<b>DR. MIDDENDORF:</b> And not hearing, he's not present.
	Valerie Dabas?
	MS. DABAS: I'm here. No changes to my employment.
	DR. MIDDENDORF: John Dement?
	DR. DEMENT: I'm here, no changes.
	DR. MIDDENDORF: Kimberly Flynn?
	MS. FLYNN: Here, and no changes.
	DR. MIDDENDORF: Bob Harrison?
	DR. HARRISON: Here, and no changes.
	DR. MIDDENDORF: Catherine Hughes?
	MS. HUGHES: Here, and no changes.
	DR. MIDDENDORF: Steve Markowitz I don't believe is going to be
	on but I'll check Steve?
	DR. MARKOWITZ: (No response)
	DR. MIDDENDORF: Guille Mejia?
	MS. MEJIA: I'm here and no changes.
	DR. MIDDENDORF: Carol North?
	DR. NORTH: (No response)
	<b>DR. MIDDENDORF:</b> I don't believe she's going to be on. Okay.
	Julia Quint?
	DR. QUINT: Here, and no changes.
	DR. MIDDENDORF: Bill Rom?
	DR. ROM: Here, and no changes.
	DR. MIDDENDORF: Susan Sidel?
	MS. SIDEL: Here and no changes.
	DR. MIDDENDORF: Glenn Talaska?

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	DR. TALASKA: Here and no changes.
	DR. MIDDENDORF: Leo Trasande?
	DR. TRASANDE: (No response)
	DR. MIDDENDORF: He said he would probably be on around 2:0
	so he's not here yet.
	And Liz Ward?
	<b>DR. WARD:</b> Here and no changes.
	DR. MIDDENDORF: Okay. Virginia Weaver?
	DR. WEAVER: (No response)
	DR. MIDDENDORF: Okay. Virginia?
	DR. WEAVER: (No response)
	DR. MIDDENDORF: We have 12 present. That gives us a quorun
	Okay.
	I also want to remind
	THE OPERATOR: Hello, I'm going to put Steve Cassidy on, please
	DR. MIDDENDORF: Okay.
	THE OPERATOR: Thank you.
	DR. MIDDENDORF: Steve, we just did the roll call. Are you ther
	MR. CASSIDY: (No response)
	DR. MIDDENDORF: Steve?
	MR. CASSIDY: (No response)
	DR. MIDDENDORF: Is Steve Cassidy there yet?
	MR. CASSIDY: (No response)
	DR. MIDDENDORF: Okay. Hopefully he'll let us know when he
	comes on.
	Okay, we do have 12 now. The amount we have is a quorum.
	For voting I just want to go over the motions and voting
	procedures. When a member of the Committee is developing a
	motion what I'll do is I'll type it here on the computer so that it's
	visible on the screens for those who are logged in to the web
	conference, and each of you should be able to see it that way.
	When the Chair calls for a vote I will have to do a roll call vote a
	I'll ask each of you in turn to say yes, meaning you are voting for
	the motion that had been put to the Committee; or no, meaning

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	you are voting against the motion that had been put to the
	Committee; or abstain, meaning you are not voting on that
	particular motion. If they recuse for a specific motion, I'll note that
	also.
	I just want to remind everyone that, according to our bylaws, the
	majority of those voting determines the outcome.
	So with that, I'll turn it over to Liz.
	<b>DR. WARD:</b> Hi, and I'd like to add my welcome to Paul's. I think w
	should probably proceed directly to John Howard's comments
	because of the 1:10 deadline for beginning the public comment.
	DR. HOWARD: Great, thanks, Liz. I appreciate that. And good
	afternoon and good morning to every Advisory Committee membe
	and to all the members of the public, responders and survivors,
	other attendees at the meeting. I just want to first of all thank
	each Committee member again for your service. Your time and
	your advice are greatly appreciated.
	As I mentioned at your inaugural meeting in November 2011, the
	Committee has an important role to play in the World Trade Cente
	Program. The James Zadroga Act specifies three general areas of
	contributions from the Committee, and only three.
	The first is providing input on eligibility criteria for Pentagon and
	Shanksville responders, and modified eligibility criteria for
	responders or survivors. The Act requires that, before making a
	determination establishing eligibility for Pentagon and Shanksville
	responders, the Administrator must consult with the Committee.
	As you'll recall, we did this at the last meeting, February 15th, and
	want to thank the Committee for its consultation on the eligibility
	criteria for Pentagon and Shanksville responders. At the present
	time the regulatory language to add that eligibility criteria is being
	prepared and will appear in a future <u>Federal Register</u> notice, as
	well as on the World Trade Center website.
	If the Administrator decides to consider modifying current
	statutory eligibility criteria for New York City responders, then a
	the Act requires the Administrator is required to consult with th

1	Committee for input.
2	In the case of changes in the survivor eligibility the Act requires the
3	Administrator consult not only with the Scientific Technical
4	Advisory Committee but also with the steering committees and the
5	data centers. At this time the Administrator is not planning to do
6	any modification to the current statutory eligibility criteria.
7	The second major area is identifying research needs. As I
8	mentioned before, Section 3341(c), pertaining to research, requires
9	the Administrator seek advice from the Committee. I want to
10	thank the Committee for its consultation provided at the February
11	meeting. On March 23rd, 2012, a funding announcement was
12	published for cooperative research agreements related to the
13	program. The receipt date for applications is May 21st, and a link
14	to the announcement can be found at grants dot NIH dot gov.
15	And thirdly, the third function of the Committee is providing a
16	recommendation regarding addition of conditions to the list that is
17	in the statute. As you are aware, we received a petition to add
18	cancer to the list of statutory conditions on September the 8th,
19	2011 and, pursuant to the Act, the Administrator requested the
20	advice of the Advisory Committee and provided a due date for the
21	recommendation of April 2nd, 2012, which is 180 days from the
22	date that the Administrator's request, which is in fact the
23	maximum amount of time permitted by the Act for the Committee
24	to submit its recommendation.
25	The Act provides that not later than 60 days after receipt of the
26	Committee's recommendation which, according to the calendar,
27	counting calendar days, would be June 1st, 2012 the
28	Administrator must publish in the <u>Federal Register</u> a proposed rule
29	with respect to the Committee's recommendation, or a
30	determination not to propose a rule and the basis for such
31	determination. As I said at your November meeting, it's important
32	to keep in mind as you deliberate today that the Committee was
33	established by the Act to provide advice of a scientific or technical
34	nature. Articulating the strongest possible scientific basis for the

1	Committee's recommendation on Petition 001, including an
2	evaluation of available information about the level of exposure to
3	carcinogenic agents, will be of the greatest value to the program.
4	And certainly I look forward to receiving your recommendation on
5	Petition 001 by April 2nd, 2012, and will give it the fullest and most
6	serious consideration.
7	Finally, some Committees Committee members have asked what
8	does the Committee do after April 2nd, 2012. And as I just stated,
9	the Act provides only consultative actions for the Committee in
10	relation to the Administrator's determining or modifying eligibility
11	criteria, preparing input for research solicitations, or determining
12	whether to add health conditions. So the Committee has a limited
13	role and meets only at the request of the Administrator based on
14	these three program needs. If there's no business to conduct with
15	regard to the Committee's consultative duties, then the
16	Administrator will not request the Designated Federal Official to
17	call a meeting.
18	So again, on behalf of the entire program, thank you very much for
19	your service on the Committee and I wish you a very successful
20	meeting today. Thank you, Liz.
21	DR. WARD: Thank you, John.
22	PUBLIC COMMENTS
23	Paul, I'll turn it over to you for public comments.
24	DR. MIDDENDORF: Okay, let me check real quick Steve Cassidy,
25	are you on the line?
26	MR. CASSIDY: (No response)
27	<b>DR. MIDDENDORF:</b> Steve, are you there? You need to Steve, if
28	you called in to the general line, you need to call back, you know,
29	on the
30	MR. CASSIDY: I am I am here.
31	<b>DR. MIDDENDORF:</b> Oh, okay, I just couldn't hear you. Okay, great.
32	Just wanted to check and make sure you were here.
33	MR. CASSIDY: I'm here, thank you.
34	<b>DR. MIDDENDORF:</b> All right. Okay, moving on to public comments.

1	Each of the public commenters have signed up on a first come, first
2	served basis and each of them will have up to five minutes to
3	present. I'd like to remind folks that five minutes can go by fairly
4	quickly, so in four minutes I will let the commenter know that they
5	have one minute remaining so they can be sure to make the point
6	they need to. If they haven't finished in five minutes, I have to
7	rudely interrupt them and thank them for their comments. I
8	apologize up front to everyone to whom that happens, but we have
9	to do that to be fair to all our presenters and to stay on time. So I
10	want to point out that you do have the option of submitting
11	written comments to the docket for this Committee. The docket
12	number is 248, and the information on how to submit that is both
13	on the NIOSH docket web page and on the Committee website.
14	The last thing I need to do before beginning the comments is to
15	make sure the commenters are aware of the redaction policy for
16	public comments. The policy is in the <u>Federal Register</u> notice for
17	this meeting, and it's also on the Committee's web page. The
18	policy outlines what information will be kept and what information
19	will be redacted before it's posted to the docket.
20	So with that, let's go to our public commenters, and our first
21	commenter is Jim Melius.
22	<b>DR. MELIUS:</b> Okay. Thank you, Paul, thank the Committee. I'm Jim
23	Melius. I'm from the New York State Laborers Union. I'm also chair
24	of the steering committee for the responders' medical program.
25	First of all I'd like to thank the Committee for all of your efforts in
26	working on this issue, responding to the petition, drafting your
27	recommendations and I think very importantly drafting the
28	really developing and drafting the scientific rationale for these
29	recommendations. I realize the amount of effort involved. You
30	didn't have a pattern or template to follow, and I really think that
31	you've done an excellent job of developing this draft document in a
32	very short time. So I appreciate it and I know others do also.
33	I have a few brief comments I'd like to make. One issue that came
34	up, at least in the development of the document, was some

1	concerns were raised about the cost and administrative burdens of
2	adding some number of cancer sites to the list of covered
3	conditions, and I really think feel very strongly that that's
4	really shouldn't be a consideration for this Committee. You're only
5	asked to review the scientific evidence involved, and I think that
6	the implementation of your recommendation and issues related to
7	that are something that really is up to NIOSH and to the World
8	Trade Center Administrator to address going forward. So I really
9	don't think that should be a consideration, nor should the cost of
10	treatment or or issues like that are not something that should be
11	part of your review process.
12	That I again reminding that there's also a second step to this
13	process, that once a condition is added there's still a diagnosis and
14	attribution of a particular in a particular patient of whether or
15	not that cancer is World Trade Center-related and a certification of
16	that attribution by the World Trade Center Administrator. So I
17	think the administrative issues can be dealt with through that. And
18	again, it's not everybody with the conditions that are included in
19	the program. There there is a second step to this.
20	Secondly, I'd like to raise an issue of you already have it partially
21	covered, but I recognize that you're not in a position to review data
22	that's not been published yet, but you do acknowledge that there
23	are studies that I believe both have been submitted for publication
24	and for public that's both the Registry and the Mount Sinai
25	Program, and and I you have a general recommendation that
26	the Administrator should take those into account. If there's a
27	particular cancer site that you're discussing and whatever, you
28	think there's a particular issue that they should address based on
29	those, I think this may come up for prostate and thyroid cancer, I
30	would make do that as a specific recommendation 'cause it's well
31	possible that both of those studies will be published by the time
32	that the Administrator is in the process of developing his
33	recommendation and his <u>Federal Register</u> notice. And so those
34	may be very well available by that time and could well be

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	considered in that process.
	Finally, I would just point out particularly two cancers that are lef
	off your list as we as I understand your report. One is breast
	cancer, which I realize there's not a great deal of literature
	linking breast cancer to occupational exposures, but I think we al
	have to recognize that that is a result of the fact that there were
	very few women working in most of the industries, at least in the
	past, where cancer was studied and where there were exposures
	many of these carcinogenic agents, and
	DR. MIDDENDORF: One minute, please.
	DR. MELIUS: I'm not sure that there's been a, you know, sort o
	a fair assessment of that. And I would ask you to sort of reconsid
	that. I believe you have a sort of set aside the an issue of
	female cancers, and I think that is probably falls under under
	that particular subject.
	The second cancer I'd ask you to reconsider is brain cancer. Again
	the literature may not be as strong as it is for some of the other
	cancer sites, but certainly it's something that's repeatedly showir
	up in studies of firefighters, as well as in petrochemical workers i
	the past and ongoing studies and it is something that I think
	there's a fair amount of evidence that it's related to chemical
	exposures, though again maybe not as strong as some of the othe
	cancers you've listed and I think that deserves some
	reconsideration. So
	DR. MIDDENDORF: That's five minutes.
	DR. MELIUS: thank you for your efforts and good luck going
	forward this afternoon.
	DR. MIDDENDORF: Thank you, Jim. Our next public commenter
	Lila Nordstrom.
	MS. NORDSTROM: Hi, I'm here. Should I begin? I was a student
	Stuyvesant High School on 9/11 and I'm the head of Stuy Health,
	which is an advocacy group for Stuy alumni who were there on th
	day. We were just three blocks from the World Trade Center and
	we were inside of our building until about 10:30 on the day. A lo

1	of us left the building after the dust cloud had already reached
2	Stuyvesant, and then later the school was used as a command
3	center for the rescue effort and not adequately cleaned ever
4	before we reoccupied it on October 9th in 2001. It was only three
5	weeks after the attacks. There was smoke and ash blown into our
6	school daily, and the barge the garbage barge for the debris was
7	right next to our school. It was right next to our air intake system,
8	and environmental testing showed that levels of particulate matter
9	outside Stuyvesant were often higher than they were at Ground
10	Zero.
11	I wanted to talk a little bit about some of the health conditions that
12	members of Stuyvesant are experiencing sorry, I'm on the street
13	and there's cars coming all of a sudden. Acid reflux and coughs and
14	respiratory problems were already pretty widespread among the
15	Stuyvesant population, but we have anecdotal reports of cancers
16	that are growing, as well as some autoimmune disorders. In the
17	last five years at least six cancers have been reported to me by
18	former classmates.
19	[identifying information redacted] from the class of 2002, I'm sure
20	you've heard from before, was diagnosed with Hodgkin's lymphoma
21	in 2006. He'd had severe flu and cold-like symptoms for years, and
22	he believes that environmental factors played a part in his
23	diagnosis.
24	[identifying information redacted] from the class of 2002 was
25	diagnosed with non-Hodgkin's lymphoma last summer, in August.
26	She went through six rounds of chemotherapy over the course of
27	four months. She's a teacher. She was unable to attend work at all
28	during that time and she's in remission right now, but her
29	treatment caused her to develop blood clots in her heart and a
30	clogged vein near her heart, so she's on blood thinners and she's
31	getting monitored every few days by giving blood.
32	[identifying information redacted] from the class of 2002 has had
33	two major surgeries in the last six years to remove multiple
34	synthroidonomas (sic), which are benign tumors. She had them on

1	both of her ovaries. These types of benign tumors are really rare in
2	younger women. She had no family history of this. And in some
3	cases these cysts actually turn out to be cancerous. She's been
4	told that they'll likely keep growing back and require further
5	surgeries, and the last surgery that she had she almost had to have
6	while she was pregnant. She ended up going under the knife three
7	months after giving birth, and she also believes that environmental
8	factors played some role.
9	There's also a thyroid cancer in the graduates of class of 2002, and
10	then for the class of 2003 the <u>Columbia Spectator</u> in 2007 reported
11	[identifying information redacted] was diagnosed with acute
12	myelogenic leukemia, which is a really rapidly-growing cancer in
13	the blood and bone marrow. It's normally found in much older
14	adults than he was at the time. He was in college at the time, and
15	he had to have a bone marrow transplant.
16	And then we also have reports of a melanoma from the class of
17	2003. It was removed, it hadn't spread and it was removed in
18	2009.
19	But these are just the cases that we know about anecdotally.
20	There are surely more than this, especially in the younger classes
21	who who, you know, are younger than the class of 2002 and
22	2003, and will probably develop similar conditions in the future.
23	There's already four cancers from my class alone, and that's in
24	addition to the numerous other 9/11-related health conditions that
25	people are reporting from these classes.
26	None of these cases have visited the 9/11 Health Center because
27	they spend their whole lives at the doctor's and they, you know,
28	don't necessarily have the ability to spend a full day getting
29	treatment for something that is not their main health problem. But
30	
31	DR. MIDDENDORF: Four minutes.
32	MS. NORDSTROM: it's really important it's really important
33	that they be able to be treated at these centers. You know, we're -
34	- we're at an age where we're you know, high numbers of us are

1	uninsured. We're spread out all over the nation. A lot of us are
2	already being excluded from health coverage based on 9/11-related
3	preexisting conditions. I personally have had that experience in
4	California and I know other classmates of mine have as well. So it's
5	these cases are certainly going to keep appearing and there are
6	certainly already an alarming number, so it's really important that
7	we have somewhere to go where we can get treated for these
8	conditions, and also so that we know what to expect, you know, so
9	that we know what the rest of the students at Stuyvesant should be
10	looking out for and how how these conditions are, you know,
11	going to affect us in the future.
12	I think that's it for me. Thanks so much
13	DR. MIDDENDORF: Thank you very much.
14	MS. NORDSTROM: for your time. Okay, bye.
15	DR. MIDDENDORF: Our next presenter is Micki Siegel de
16	Hernandez.
17	MS. SIEGEL DE HERNANDEZ: Hi, thank you, Paul. My name is Micki
18	Siegel de Hernandez. I'm the Health and Safety Director for the
19	Communications Workers of America in District One. Our union
20	represents different groups of 9/11 responders, as well as area
21	workers affected by the events of 9/11 and subsequent exposures.
22	The Committee should be commended for the work that went into
23	the draft recommendations. There was clearly an enormous
24	amount of thought and effort put into the draft. And the body of
25	scientific evidence that was compiled in such a short amount of
26	time is impressive. The STAC should also be commended for
27	recognizing in this draft that the lack of quantitative exposure data
28	is not evidence of a lack of exposure.
29	Our union advocates the inclusion of all cancers in the list of World
30	Trade Center covered conditions, and believes there is ample
31	rationale for that recommendation.
32	On page two of the draft the STAC draft it says, quote, 'Many
33	substances present in World Trade Center dust and smoke have
34	been classified by IARC as known, probable, or possible carcinogens

1	based on animal studies and mechanistic data, and the Committee
2	believes that such evidence is highly predictive for human
3	carcinogenicity. However, because there is limited concordance
4	between specific cancer sites affected in humans and animals, only
5	those substances classified based on human data are informative
6	regarding organ sites of carcinogenicity in humans' end quote.
7	Therefore, many World Trade Center contaminants for which the
8	evidence as recognized by the STAC as highly predictive for human
9	carcinogenicity were removed from consideration in the STAC's
10	deliberations because specific cancer sites in humans could not be
11	determined.
12	Instead, I would urge the STAC to reconsider this and recognize
13	that the presence of multiple carcinogenic substances supported by
14	IARC documentation, scientific documentation, and known to have
15	been present in World Trade Center contamination but for which
16	human cancer sites cannot be predicted, as lending scientific
17	credence to the inclusion of all cancers. If instead the Committee
18	decides to include only certain cancers and exclude others, it is
19	then incumbent upon the Committee to provide stronger support
20	than is in the current draft as to why those cancers not
21	recommended for inclusion could not be considered potentially
22	World Trade Center related.
23	And lastly, I want to echo what Dr. Melius said earlier and to
24	remind the STAC that the list of World Trade Center covered
25	conditions is not presumptive for any of the diseases currently on
26	the list, and similarly will not be presumptive for cancer. It will still
27	be up to a treating physician to determine World Trade Center
28	relatedness and attribution for any given individual based upon
29	many, many factors, including an individual's personal and medical
30	history, World Trade Center exposures, temporality of disease
31	onset or exacerbation, medical exams, test results, co-morbidities,
32	et cetera.
33	Thank you.
34	DR. MIDDENDORF: Thanks, Micki. Next commenter is Frank

1	Tramontano.
2	MR. TRAMONTANO: Hi, good afternoon, this is Frank Tramontano
3	from from the Patrolmen's Benevolent Association. This
4	Committee has heard testimony about how the sampling data for
5	the various carcinogens at the World Trade Center site were
6	limited and how no samples were collected until four days after
7	9/11. Testimony also revealed how the samples were collected not
8	to capture the highest exposures and not in a manner to estimate
9	exposures for workers on the Pile. The Committee still only has
10	one cancer study published to date to use in making this decision
11	on the inclusion of cancers. Despite these shortcomings, this
12	Committee in its March 18th draft has determined there is
13	sufficient evidence to confirm that those who were exposed to
14	carcinogens at the World Trade Center site have an elevated risk of
15	developing cancer. However, the draft document arguments (sic)
16	against recommending all cancers be covered. Some of those
17	arguments presented against recommending all cancers are based
18	on resources required to implement such a recommendation, while
19	other arguments project how cancer patients and health providers
20	would react. We feel these arguments should be considered
21	outside the scope of the Committee's charge.
22	We support and strongly agree with the arguments presented in
23	favor of adding all cancers. Some of these arguments include the
24	large volume of toxic materials present in the World Trade Center,
25	the presence of multiple exposures and mixtures with the potential
26	to act together to produce unexpected health effects, the major
27	gap in the data with respect to the range and level of carcinogens
28	and the limitations of testing for the carcinogenic nature of the
29	many chemicals and agents identified at the World Trade Center.
30	These arguments, along with some of the key findings in the FDNY
31	study, are more than sufficient to support all cancer
32	recommendation to the program Administrator.
33	After ten and a half years, the only cancer study completed is the
34	FDNY study. This study does not include data beyond 2008, and

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1	the surveillance bias included in that study reduces the data back
2	to 2006. The fact that the cancer cases identified in the
3	surveillance bias were not early stage tumors and that Dr. Prezant
4	has testified before this Committee that the non-exposed group
5	have a good rate of participation in the FDNY monthly program
6	should suggest should question the relevance of the surveillance
7	bias.
8	Additionally, both the Mount Sinai and the New York City
9	Department of Health cancer studies, which have been promised to
10	this Committee but have yet to come out, appear to support the
11	findings of the FDNY study, despite those studies having some
12	serious limitations, not the least of which is failing to include 70
13	police officer responders that we know were diagnosed with cancer
14	within the time frame covered in these studies.
15	Yet despite having only one study with the new qualifications, we
16	believe there is sufficient scientific and medical evidence that
17	exists to support adding all cancers. We base this belief on the fact
18	that the FDNY study showed that the increased growth in cancers
19	of exposed firefighters versus non-exposed firefighters was
20	significantly higher in the later period of the study, from 2005 to
21	2008, than it was in the earlier period. Furthermore, it is logical
22	and acceptable for this Committee to accept that difference to
23	grow, thus establishing an even greater support for all the cancer
24	recommendation for an all-cancer recommendation. It would be
25	helpful if this Committee had an updated analysis through 2011
26	from the FDNY, using the same standard as in the original cancer
27	study of self-reported cases that have pathological confirmation.
28	The Committee's recommendation recommended approach is to
29	vote on individual cancers. This approach appears to leave out at
30	least two cancers that we believe there is evidence of being WTC-
31	related. The PBA has eight brain cancers cancer cases reported
32	to us with an average age of diagnosis of 36. The annual national
33	average is 6.5 per 100,000 with an average age of 56. Clearly the
34	average age for diagnosis that we have suggests something

1	unusual. We are asking that an immediate review be done on all
2	the brain cancer cases compiled by all the brain by all the cancer
3	study groups to determine the real rate of brain cancer among the
4	responder population.
5	Pancreatic cancer is another cancer we believe warrants a more
6	comprehensive review before it's left off the list. The PBA has six
7	pancreatic cancer cases reported to us with an average age of 48,
8	and the FDNY cancer study lists five pancreatic cancers. The same
9	issues can be raised with the cancer with this cancer, with our
10	average age of diagnosis being 48, when it is 72 among the general
11	population
12	DR. MIDDENDORF: One minute.
13	MR. TRAMONTANO: suggesting that this, too, is a cancer that
14	demands immediate review.
15	Additionally, we do not we do not understand why pancreatic
16	cancer isn't being recommended for approval since it appears to
17	meet the Committee's specific criteria of arising in regions other
18	than the digestive tract. This Committee has a responsibility to at
19	least recommend that a further review be done on these two
20	cancers and the results be reported to the program Administrator.
21	We must remember there are real lives that hang in the balance,
22	making it worthy of a more comprehensive review.
23	Finally, we must remember that while the information before this
24	Committee hasn't changed in the last six weeks, there have been
25	changes in the lives of responders who have who are being
26	diagnosed with cancer. It is exactly for this reason Congress has
27	mandated that cancer that this cancer issue be reviewed. The
28	men and women who responded that day who are sick with cancer
29	today and need treatment are relying on this Committee to leave
30	no stone unturned in their review of the medical and scientific
31	evidence establishing the exposure between responders and
32	cancer. It is for these reasons we request the Committee to
33	require an additional review for brain and pancreatic cancer if they
34	choose today not to approve those cancers for treatment.

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Thank you.
DR. MIDDENDORF: Thank you very much. Our next presenter is
Mary Perillo.
MS. PERILLO: Hello? Can you hear me?
DR. MIDDENDORF: Yes.
MS. PERILLO: Okay. Do you have my pictures?
<b>DR. MIDDENDORF:</b> Yes. When you tell me to put them up I will try
to bring them up on the web conference.
MS. PERILLO: Okay, let's start with number one.
<b>DR. MIDDENDORF:</b> It doesn't look like it's going to work. There
appears to be something wrong with the photograph. Let me try
the second one no, there seems to be a problem with them.
<b>MS. PERILLO:</b> Okay. Is there a way that they can be entered into
testimony with my
<b>DR. MIDDENDORF:</b> We can attach them at the end of the docket,
yes.
, MS. PERILLO: Yeah, okay, great. Then I'll just
<b>DR. MIDDENDORF:</b> I'll ask you to send me a new copy of them.
<b>MS. PERILLO:</b> Okay, that's fine. On September 11th my building,
which is on the south border of the World Trade Center site, was
very much involved. A number it remained standing, but a
number of the windows all the windows on the west side and the
north side and a couple of other windows in the building were
blown in. And along with the windows blowing in, a tidal wave of
World Trade Center debris also blew in the broken windows that
included things from the sizes of 11-foot window flashings and
computers, corners of desks, rugs, phones, to things in particle size
so small as under what was it, what was our old number size?
It's been such a long time since I've done the numbers. We needed
to be clean below Kimberly, help me so many microns. But
whatever it was, we were way we were way off the charts in
terms of what was safe to breathe, even though at the time we
were being told that it was okay to go back in. And we went back
in with police escort to try to dig through the say three-foot deep

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	in the corner piles of dust and debris and find, I don't know,
	personal photographs, my mom's engagement ring we went
	through to find things at first.
	And then we went through and worked for weeks and weeks and
	weeks shoveling because our landlord said that he wouldn't clean
	the building unless it was empty and empty of everything but
	solid wood or metal. So we started doing that, all the while
	pleading to the EPA and the DEP and the DEC and anybody who
	would listen. I called the USGS and UC California Davis to see if we
	could get numbers, tests and help with the cleanup. When we
	finally found out that we had pretty much everything that Deutsche
	Bank had in our apartment the pile was basically in our
	apartments I called an old geology professor and he sent
	someone to estimate a proper cleaning of my space, which was
	\$26,000 so that was pretty impossible.
	And then finally the EPA was convinced by the community to assist
	with the cleanup, and we were one of the test buildings for the
	cleanup. September 15th, 2002 was the day our cleanup began, so
	in the year before that we spent a lot of time not living in the
	building but clearing out the building ourselves. And without
	electricity and water, we weren't doing a very good job of it and we
	were taking it all to wherever it was we were living at the time.
	So when our cleaning began it was a year and three days later,
	something like that, and it was three shifts a day, seven days a
	week for a month to clean one 12-story building with about 20
	apartments. And mine failed three times in a row. It didn't clear
	three times in a row and had to re-clean it, re-clean it, just
	basically hosed it down till there was nothing left but water on the
	walls, and I even tore some walls down to make sure that walls that
	were perfectly flush to the floor were not harboring stuff I'd have
	to breathe for the rest of my life in the building where I still live.
	The best the best I can remember about the chemicals in our
	dust is that it exceeded pretty much every exceedence (sic) that
	was found in all the other places that were tested. I still own some

1	of the dust in a baggie. If anybody would like to test it now you
2	can have new samples. I don't know what happens to it after more
3	than ten years, but I know that there are two people in a lab who
4	know the numbers on what we had, and I know that we were
5	exposed to way too much, way too small particles for way too long,
6	and I really hope that you do add the cancers to the list, and also
7	that you add the community that was exposed. We really are very
8	grateful to the first responders who were there, and we were
9	there, too. We were next to them.
10	Okay? Thank you.
11	DR. MIDDENDORF: Thank you very much, Mary.
12	MS. PERILLO: Okay.
13	<b>DR. MIDDENDORF:</b> Our next presenter is Jo Polett.
14	MS. POLETT: My name is Jo Polett and I live seven blocks north of
15	the World Trade Center site. I'm impressed by the Committee's
16	grasp of the complexity and variety of toxic exposures within and
17	across the populations with which the master draft is concerned. I
18	do, though, have a couple of edits that I hope you'll accept.
19	On page 11, lines 18 and 19, the document states 'Dust entered
20	buildings through broken windows, open windows and air intakes.'
21	The fact is dust also entered buildings through closed windows.
22	Given the mass and force of the collapse cloud, buildings in its path
23	acted as sieves for the dust. So while a lot less dust entered a
24	building through a closed window than through a broken or open
25	window, the dust that made it through closed windows had
26	proportionately higher amounts of very small, highly respirable
27	particles. I ask that you amend the statement to read 'Dust
28	entered buildings through broken windows, open windows, closed
29	windows and air intakes.' An additional advantage of the proposed
30	correction is that it broadens the statement to cover the smoke-
31	borne particles referenced earlier in the draft that permeated the
32	closed windows of lower Manhattan buildings for months following
33	the attacks.
34	For the second edit please go to page 18, line 16 of the draft.

1	Quote, 'The US EPA did not find elevated levels of TCDD and house
2	dust,' end of quote. I understand that the aim of the paragraph is
3	to lay out the various conflicting findings regarding the quantities
4	of dioxins, furans and PCBs released by the attack in its aftermath.
5	Indeed, the sentence in question is immediately countered by a
6	sentence referencing the window film analyses that found high
7	levels of TCDD adhering to the outside of windows in buildings
8	within one kilometer of the site. However, the implication is that
9	the US EPA findings and the window film analyses deserve equal
10	weight. They do not. EPA scientists were constrained by EPA's
11	liability concerns. The Canadian team that conducted the window
12	sampling had no such constraints. Further, the EPA finding is not
13	sourced, though I expect it will be in the discussion that follows. In
14	any case, before an EPA finding can be accepted as credible, the
15	sampling method must be reviewed and the conduct of the method
16	must be assessed. In cases where it's not possible to charter a time
17	machine and watch EPA collecting the samples, negative findings
18	must be considered suspect.
19	I know this because I was present when EPA sampled my apartment
20	for heavy metals and dioxins during the first test and clean
21	program that launched in May of 2002. When I saw that the EPA
22	sampling technicians were setting up to collect the samples from
23	my kitchen counter, I insisted that they collect the samples from a
24	surface more likely to harbor contaminants. After a lengthy
25	argument, the technicians agreed to collect the samples from the
26	wood floor of my bedroom instead of the kitchen counter.
27	As reported at the first meeting of this Committee, the wide
28	sample results from my bedroom floor was 127 micrograms per
29	square foot. The results for antimony was 1090 micrograms per
30	square foot. Had I not been present during the sampling and
31	fought with EPA's technicians, the presence of WTC-derived heavy
32	metals in my apartment would have gone undetected.
33	For support of my contention that EPA's WTC findings were
34	constrained and corrupted by EPA's liability and policy concerns, I

1	refer you to the summary report of the US EPA technical peer
2	review meeting on the draft document entitled 'Exposure and
3	Human Health Evaluation of the Airborne Pollution from the World
4	Trade Center Disaster.' The peer review committee met in July of
5	2003 and published its report the following December.
6	<b>DR. MIDDENDORF:</b> One minute, please.
7	<b>MS. POLETT:</b> A major purpose of the EPA's document was to
8	obfuscate the difference between conditions indoors and
9	conditions outdoors and state, quote, 'Except for exposures on
10	September 11th and possibly during the next few days, persons in
11	the surrounding community were unlikely to suffer short term or
12	long term adverse health effects.' Peer reviewers unanimously
13	rejected this ploy, insisting that EPA make a clear distinction
14	between exposures to ambient air and indoor and occupations
15	exposures. They took the additional step of suggesting that EPA
16	convene an independent group such as the National Academy of
17	Sciences to analyze the indoor air data because they were so
18	discouraged by EPA's use of suspect data to support its analysis of
19	indoor air conditions.
20	DR. MIDDENDORF: Five minutes, Ms. Polett.
21	MS. POLETT: I ask that the Committee appropriately qualify the
22	EPA finding in question or delete it from the paragraph entirely.
23	Thank you.
24	DR. MIDDENDORF: Thank you very much. Our next presenter is
25	T.J. Gilmartin.
26	MR. GILMARTIN: Yes, T.J. Gilmartin here. I'm 31 years as a shop
27	steward with United Cement Masons Union in New York building
28	high-rises. I've already spoken once before at the federal plaza.
29	Now I just want to reiterate that in the 31 years that I was on a
30	construction site, everything that was at the Trade Center
31	according to the OSHA standards, I just can't see how they can't
32	put some of these OSHA standards to everything that was down
33	there the silicas, the dust the concrete dust, the asbestos. I
34	mean this is all stuff that, when I was on a construction site, I

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1	would have got locked up or fined very high if I didn't have
2	respirators on and all. I mean just common sense tells me if you're
3	putting up these buildings and they have such high standards for us
4	putting up the buildings, what happens when two of them come
5	crashing down all at one time? And these buildings I mean it's
6	just common sense.
7	And you know, I just want to thank you for all the intent,
8	everything you've done, and I just want to add one other quick
9	point, that as much as you're doing this, I really appreciate it.
10	Don't let there's a lot of people coming out of the woodwork.
11	Even if you add this cancer and these cancers get added, you're
12	going to have everybody and their mother, pardon my French,
13	coming out of the woodwork, swearing that it was from the World
14	Trade Center. There are some real heroes that deserve deserve
15	to be taken care of, but there's als don't let the frauds discourage
16	you from what you're doing. You guys do a great job.
17	And now when I've got a few minutes. I have somebody else to
18	speak in my the rest of my time spot.
19	<b>UNIDENTIFIED:</b> Here is Chris Kraft, giving up T.J.'s time.
20	MS. KRAFT: My name is Christine Kraft. I am a retired clinical
21	social worker. On 9/11 I was already retired from my job and I was
22	a member of the Red Cross Disaster Mental Health Team. And as
23	such, on 9/11 we were dispatched down to Ground Zero, I had full
24	Ground Zero clearance. My job was to go down to Ground Zero to
25	take care of all of the first responders who were there, to make
26	sure everybody was okay. I will tell you right now that I have
27	several medical conditions. I have nodules in my lungs. I have
28	Hashimoto's thyroiditis. I have GERD's. I have a blown sinus, and I
29	have strange neuromuscular disorders. I was breathing that stuff
30	for quite some time.
31	My sister-in-law, who was down there for four days, has thyroid
32	cancer and she recently had half of her thyroid removed. I also
33	personally know many other people who have Hashimoto's
34	thyroiditis, as well as nodules of the thyroid which I also have

1	which have so far not been diagnosed as cancer but there is a
2	chance that it will. They told my sister-in-law there was nothing
3	even after a biopsy was done, they said it was probably not not
4	cancer, but it turned out that she chose to have the surgery and
5	it turned out to be cancer as well.
6	I know a friend of mine who was 12 years old and a student in the
7	area at the time, she now has thyroiditis as well, Hashimoto's. This
8	is a common disorder of middle-aged women. She is 20 years old.
9	I also know someone else who lived in the building that was near
10	the World Trade Center. She is a guide down there as well, and she
11	now has Hashimoto's as well. She is under the age of 40.
12	Nobody in my family or any of my friends' families ever had any
13	problems with the thyroid. Before that I was a runner. I was very
14	healthy, and I never thought in a million years that this would
15	happen to me. But at the same time, what we were breathing
16	there, and I'd like to follow the gentleman that was recently up, I
17	can stand in a room with second-hand smoke and that exposes me
18	to lung cancer. But I was in the pit of hell with every every
19	substance known to man and breathing that outright for days and
20	days on end and that doesn't cause cancer at all.
21	DR. MIDDENDORF: One minute, please.
22	MS. KRAFT: It's the logic that that it would be. Thank you very
23	much for your time.
24	UNIDENTIFIED: Thank you. Joe Morrone, a downtown resident, is
25	going to use the remaining minute.
26	MR. MORRONE: Hi, my name is Joe Morrone. I'm a resident of
27	Southbridge Towers. At the time of the attacks on the Trade
28	Center I worked on the New York Stock Exchange floor, and I was
29	President of the Board of Directors of Southbridge Towers. So
30	and that was right in the line of all that smoke and everything. I
31	was just recently I remember the CDC coming down with Nadler
32	to talk to the Board of Directors at the time, to talk to our co-op in
33	February of 2002, telling us that the air was clear. And just so you
34	know, I asked him to leave and not insult my intelligence because

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l I	we didn't know about what bomb we were breathing because it
2	was just asbestos or just PCB or just lead, I could understand it, but
3	with all the particles that we were breathing with the Trade Center
1	being vaporized the way it was, I knew that eventually something
5	would happen. And ten years almost ten years to the day I was
5	diagnosed with a mass a real a mass on my kidney and
7	DR. MIDDENDORF: Your five minutes is up, please.
3	MR. MORRONE: I'm sorry?
•	DR. MIDDENDORF: The five minutes is up. Thank you very much.
)	MR. MORRONE: Thank you.
L	<b>DR. MIDDENDORF:</b> Could I get the last gentleman's name, please?
2	MR. MORRONE: Sure, my name is Joe Morrone, M-o-r-r-o-n-e.
3	UNIDENTIFIED: And he lived and worked downtown.
1	MR. MORRONE: I worked on Wall Street, New York Stock
5	Exchange, and I lived there also with my children.
5	DR. MIDDENDORF: Okay, the name is Joe Morrone, M-o-r-o-n-e
7	(sic)?
3	MR. MORRONE: M-o-r-r double-r o-n-e.
•	DR. MIDDENDORF: Okay, thank you very much. Our next
)	presenter is Jacques Capsouto.
L I	UNIDENTIFIED: Jacques Capsouto's right here as well.
2	DR. MIDDENDORF: Okay.
3	MR. CAPSOUTO: Hi, my name is Jacques Capsouto. I'm a resident
1	and business in Tribeca. I'm here to talk about Albert Capsouto,
5	my younger brother, who died of brain cancer I'm repeating,
5	brain cancer, which you have not included. He was diagnosed
7	November 16th, 2009 and died January 19th, 2010, nine weeks
3	after he got diagnosed. Albert was involved in the community, part
•	of community board one, for 19 years. After 9/11 it became a full-
)	time job to reconstruct downtown, so if I get emotional He was
l	involved in four or five committees and he used to spend all his
2	time going by bicycle downtown to the to the Ground Zero. He
3	sorry. He got diagnosed with gladioblastoma (sic) number four,
1	which is a brain cancer, a mark of brain cancer. He died very

1	quickly. The cancer really disabled him so fast that he
2	deteriorate so fast that we didn't even have time to communicate.
3	We we opened a restaurant in Tribeca and we stayed open and
4	we fed people and we became a center for people to have for the
5	community to be able to have a place to gather together, so we
6	gave food away for 17 days. The name of the restaurant is
7	Capsouto Freres and is at 451 Washington Street, and we reside at
8	457 Washington Street, which is in Tribeca.
9	And I hope that you take my statement as a testimony to include
10	brain cancer. Please include it. He was very young and died very
11	quickly, and I think
12	<b>UNIDENTIFIED:</b> And he never moved out of the area, either.
13	MR. CAPSOUTO: We we live in the area and then my mother
14	we all of the whole family lives downtown and he's the only one
15	that came out so quick, so fast. My mom also lived in the area,
16	also died of liver cancer. They say there was they say there was
17	health that it was no problem being downtown. We had the
18	people from Con Edison bringing the dust to the restaurant. We
19	had to feed the firemen coming in the first two, three days, coming
20	in with the dust all over their clothes, coming into the restaurant.
21	We had but Albert was really involved. He must have spent
22	maybe three or four days going downtown on his bicycle to help
23	the small businesses, to help reconstruct downtown. As a matter
24	of fact, on October 28th of last year a park was dedicated to his
25	name on the on Canal and Valley and Lake Streets. If you the
26	park was the property of the Port Authority and he negotiated for
27	the Port Authority to give the land to the Park Department and
28	that's
29	DR. MIDDENDORF: One minute, please.
30	MR. CAPSOUTO: the reason that the park was named after him.
31	I think I've said enough, and I think I think you should consider
32	brain cancer as another cancer to add to your list. I thank you.
33	Have a nice afternoon and I hope you all do a good job on the on
34	this Committee. Thank you.

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**DR. MIDDENDORF:** Thank you very much, Jacques. I want to thank each of our public commenters for providing their perspective and their insight to the Committee, and it's always very helpful to hear from the people who live and work in that area. So on behalf of the Committee I want to thank each of you for coming and providing your information.

1	DISCUSSION OF CANCER PETITION
2	Before I turn this over to Liz, I just and as the Committee dives
3	into the decision-making part of the meeting, I want to just take a
4	minute to remind the Committee members what Dr. Howard
5	mentioned in his statement about the need to articulate the
6	scientific basis for their arguments. Looking out from the
7	administrative perspective to add conditions to the list, he needs
8	to know why a specific health condition or, in this case for this
9	petition, cancer or a specific type of cancer should be added to the
10	list of covered conditions. To accomplish this requires careful
11	building of arguments based on scientific evidence to make the
12	case for adding a specific health condition or cancer. That
13	evidence it will come from the available information on
14	exposure, epidemiology, toxicology, and it's important to
15	understand that this approach is based on an examination of the
16	best available evidence. It is not an approach based on merely
17	presuming the cancer is a likely health effect that may result from
18	the World Trade Center exposures. It won't be helpful to
19	recommend to the Administrator that he presume that a condition
20	should be added to the list unless the scientific evidence
21	demonstrates that it shouldn't be on the list.
22	In moving forward, the Administrator will have to make the case
23	for adding conditions, so the Committee will be most helpful if it
24	presents the scientific arguments for adding conditions. If you
25	want to say that another way, what the Administrator needs is for
26	the Committee to answer the question 'Should this condition be
27	added to the list?' for each of the conditions it decides to
28	recommend for addition.
29	So I'll turn it back over to Liz.
30	<b>DR. TRASANDE:</b> Paul, may this is Leo Trasande. I apologize for
31	interrupting but I realized I wasn't in at the earliest part of the call
32	and I just wanted to document that I was here.
33	DR. MIDDENDORF: Okay. Thank you very much. So Liz?
34	DR. WARD: Yes. So Paul and I talked a bit about how to best run

1	this meeting, given the challenges of having this meeting be a
2	teleconference, and also the need to really have a more formal
3	style of meeting using Robert's Rules of Order, and my sugges or
4	our suggestion is that we really look at the cover letter to Dr.
5	Howard and go through go through it kind of in sequence and
6	that so for example if it should talk about the first option of
7	recommendations to include all cancers as World Trade Center-
8	related conditions, the floor would be open for a motion to
9	approve that recommendation, then a second, then there would be
10	discussion, and then we would call for a vote.
11	With regard to the second option, there's a couple of ways that we
12	can proceed on that. We can have a motion to accept the second
13	op assuming that the first I mean if the first option the first
14	option is approved by the Committee, then obviously we don't
15	proceed to the second option, although we may talk about some
16	ways that the information that was compiled for the in the
17	second option might be used in the report. But but if the
18	Committee does not vote to go with option one, then we'll move
19	on to option two. And we can either consider option two as just
20	accepting all of the cancers listed in option two, or we can have a
21	motion to vote on each of the individual sites and site groupings
22	that were broken out.
23	I assume it's also in order that we could entertain motions to add
24	sites or organ systems that were not included in the draft cover
25	letter. But one thing we have to keep in mind is that if we add a
26	site or organ group, at this point we need to draft text that would
27	support that recommendation because, as I understand this from
28	Paul, essentially all of the writing on major points needs to be done
29	at the meeting and not later.
30	I should also make you aware that I know that the draft that was
31	posted had some minor typographical errors and the references
32	were not completely compiled. I've been working on that in the
33	interim and, you know, we'll make every effort to make sure that
34	the final document is properly formatted and doesn't include any

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	errors.
	So the way we're going to work this meeting is that Paul will
	actually be making the changes to the draft document that was

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4	circulated, or that was posted. And what I will try to do I want to
5	be sure I know it's very difficult on these conference calls where,
6	you know, a lot of people are trying to speak at the same time and
7	if you're quiet like me sometimes you don't get heard. So what I'll
8	try to do is, you know, if a number of people want to speak, I'll ask
9	I'll take a minute and try to get a list of names so that I can be
10	sure that everyone gets the opportunity to speak that wants to
11	speak on an issue.
12	So at this point are there any questions before we open the floor
13	for a motion to get started on discussing our recommendation
14	any questions or overall comments?
15	MS. HUGHES: This is Catherine Hughes. I have a question of
16	logistics. At what point in this conversation are we going to
17	actually be voting for option one or option two?
18	DR. WARD: Well, when Paul and I talked about it, it was our
19	thought that we would vote on option we would have discussion
20	on option one and then vote on option one, because essentially if
21	we vote in favor of option one, then option two is moot because
22	we're not going to be voting on we're not going to be talking
23	about a listing of specific sites.

about a listing of specific sites. 24 MS. HUGHES: Okay, so if we're talking about option one, I wanted 25 to draw everyone's attention to a New Science news article that 26 came out at February 25th, 2012 which refers to the proceedings of 27 the National Academy of Sciences that says bad stress is tied to 28 inflammation, and that negative interactions may have biological 29 effects. And it referred to two proteins that cause inflammation, 30 that inflammatory triggers have been linked to increased risk of 31 heart disease, high blood pressure, cancer -- which we're talking 32 about today -- and depression. And the new results add to a 33 growing body of research that links social stress to biological risk. 34 So if -- 'cause I realized, when I was going through the testimony,

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1	we had not talked much about the mental impact on physical
2	health. If one of our mental health experts could weigh in it would
3	be much appreciated.
4	DR. WARD: Okay. But let's I mean it you know, maybe it's
5	time to get a motion on the table regarding option one so then we
6	can we can start the substantive discussion on that option?
7	Anybody like to make a motion on option one?
8	MS. SIDEL: Well, actually I have a question. This is Susan Sidel.
9	DR. WARD: Okay.
10	MS. SIDEL: You know, it's kind of hard to start talking about option
11	one until I have an idea of what's going to be included on option
12	two. Do you know what I mean? Like if if certain cancers that
13	we that aren't there, if they're added, if there's a discussion
14	about them and that if they're added it may change it could
15	possibly change how people looked over at option one. I'm just
16	throwing that out there.
17	DR. WARD: Yeah, I think I mean does anyone else have a similar
18	concern?
19	(No response)
20	<b>DR. WARD:</b> I guess what you know, what we have to try to do,
21	since we have kind of a limited time for the meeting and we really
22	have only today to get this done, is to you know, to proceed as
23	efficiently as possible. Now I guess and Paul, you could help me
24	with this because I'm not really that used to running committees
25	with Robert's Rules of Order. I mean I guess if we are in the course
26	of discussing option one, a number of people feel that they can't
27	make a decision on option one before they have an opportunity to
28	discuss option two and see what the final list of cancers would be,
29	then we I guess we could you know, we can entertain a motion
30	that we not vote on option one before we
31	DR. MIDDENDORF: Yes, you can table the motion.
32	<b>DR. WARD:</b> We can table the motion.
33	MS. HUGHES: Catherine Hughes here again. Can we have
34	clarification why brain cancer, pancreatic cancer and breast

1	cancer's not, you know, being included?
2	DR. WARD: Well, I think at the end of the last meeting we the
3	Committee recommended that we derive a list of cancers that
4	should be included by reviewing three sources of information. One
5	was the IARC list of cancer sites associated with cancer in humans
6	for those sites for those exposures that were present at the
7	World Trade Center, and that in our table, that is column one
8	in our table four, that's column one.
9	And then the second second source was to review the areas of
10	the body where there had been evidence of World Trade Center-
11	related conditions that where chronic inflammation was part of
12	the etiology or the cause for the for the biological process.
13	And then the third was to look at the first epidemiologic study that
14	was published, that's the firefighters, and look at sites that had any
15	positive (indiscernible) at all in that study.
16	So we compiled the list from those three sources as accurately as
17	I mean I did it and I assume other Committee members reviewed it.
18	And then if it was if we got a positive signal from any of the three
19	sources, then we included it in the list and we also discussed, you
20	know, what we also in the cover letter we discussed what the
21	level of what types of evidence were there and what the level of
22	evidence was. So if it's not there, it means that so if brain and
23	pancreas are not and breast are not there it's because we didn't
24	pick them up from any of the three sources that we agreed on a
25	priori.
26	Now that doesn't say that we can't now make a motion to include
27	one of those. What we were trying to do with this draft is simply
28	to follow the guidance that the Committee had with respect to how
29	to generate the list.
30	MS. MEJIA: This is Guille.
31	DR. WARD: Hi, Guille.
32	MS. MEJIA: Sorry. Listen, I would like to make a motion that we
33	include all cancers, make a recommendation to the Administrator
34	that all cancers be included. And the rationale for including all

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	cancers that we use the option two rationale to justify our option
	of including all cancers. So that's my motion.
	DR. MIDDENDORF: I need specific wording to be able to put it up.
	MS. MEJIA: Okay. That the STAC Committee the motion is is
	that we recommend to the Administrator that all cancers are
	covered, and that the rationale for covering all these cancers is the
	basis for option two. You know, we used that information to justi
	the coverage.
	Sorry, I'm not very good at forming these motions.
	DR. WARD: Yeah, we could say that we incorporate some of the
	we incorporate some of the rationales from option two to develop
	the rationale for option one. Would that capture what you're
	recommending?
	MS. MEJIA: Yes, Liz. Thank you very much.
	MS. DABAS: Hi, Liz, it's Valerie. I second Guille's motion.
	DR. WARD: Great. So now the floor is open for discussion and, lik
	I say, if it works out if it works out well that we're all speaking
	and everything's working out smoothly, I'll just we'll go like that
	But if we need to start making a list, then we'll go that way. So the
	floor is open for discussion.
	MS. MEJIA: Well, if I could start this is Guille again
	DR. WARD: Okay.
	MS. MEJIA: I would just like to just state that, you know, we
	have in these meetings acknowledged the magnitude of the
	exposures that have been experienced by the responders and area
	workers and the survivors to this toxic mixture. And you know, the
	lack of information as Micki has stated earlier, the lack of
	information in the literature is is really not enough to say that
	certain cancers should be excluded. And there are there are
	procedures in place to deal with whether this whether an
	individual's cancer will be covered by the treatment program. So
	you know, we shouldn't be worried about that, so I'll just leave i
	at that.
	DR. WARD: Thank you. Anyone else?

1	MS. FLYNN: Yes, Liz, this is Kimberly and, first of all, you know, I
2	want to thank you for taking the lead on this document. It's a
3	remarkable document and it represents an extraordinary effort,
4	primarily by yourself but also by the other experts.
5	Nonetheless, I want to speak in favor of option one, in favor of
6	Guille's motion to incorporate option two, and I think that the
7	additional rationale that we can use for every cancer that is not
8	currently listed in option two is quite simply the precautionary
9	principle, which is sound science and recognizes that as our
10	knowledge evolves it's going to lead us in a direction of
11	understanding all the ways that aggregate exposures, cumulative
12	exposures, synergistic exposures raise the risk of developing
13	cancers. As scientific knowledge grows, so inevitably does the list
14	of carcinogens. And almost without exception we will continue to
15	see a steady lowering of the threshold at which exposures to
16	carcinogens are known to have the potential to cause cancer.
17	I just, you know I mean you've heard a number of people giving
18	public comment today testifying in detailed ways about their
19	exposure scenarios. You know, we heard about a restaurant where
20	food was being served to returning members of the community and
21	responders. You know, we will never know we will never have
22	the kind of narrative that we would need to come to some kind of
23	detailed judgment about all of the substances to which people
24	were potentially exposed and all of the levels to which they're
25	exposed. So you know, if as a child, unbeknownst to my parents
26	who had to wait more than a year for an EPA cleanup, I was
27	crawling on a carpet that was a reservoir for WTC lead, silica,
28	fibrous glass, there was also highly alkaline concrete dust, carpet
29	fibers, along with some of the dust may have been coated with
30	something like TCDD that's a carcinogen and a potentiator for
31	other carcinogens. I may also have breathed PAHs in
32	(indiscernible) fumes for weeks at my day care on Church Street.
33	Exposures to PCP-172 which causes DNA hypermethyla
34	hypomethylation, even at low levels, might have come in my

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	apartment windows in the first weeks following 9/11 and left an
	invisible film on the beanbag chair.
	I just I think that, you know, the question of what would my pos
	9/11 cancer risk be is not something that we can nail down. And
	do not think we should resolve uncertainties in favor of no effect.
	That's clearly what happened with respect to the government's
	judgments, and the result of that was that protections were not
	put in place and many, many people were unconscionably and
	unnecessarily exposed and are now sick. So I would say that, you
	know I mean actually I'm wondering if option one shouldn't be
	framed a little differently. I'm wondering if the truer path here
	wouldn't be to presume that all cancers are linked unless there is
	some definitive evidence demonstrating that a given cancer shoul
	not be linked.
	DR. ROM: This is Bill Rom. Could I speak up?
	DR. WARD: Yes, please. Thank you.
	DR. ROM: So looking at all cancer, about five percent of all cance
	is related to occupational exposures. That's probably occupation
	and environmental exposures, and I think we should try everythin
	that we can to try to get to that five percent. But thinking of the
	other 95 percent, there's a lack of scientific evidence for those.
	We're supposed to be a scientific advisory committee, as well as
	technical, so I think we should really try to focus on those five
	percent and get some agreement on that. If we say all cancer is
	caused, then we should say acute myocardial infarctions, stroke,
	dementia, Alzheimer's and every other disease potentially should
	be causal. So I think we're overreaching, and I think we should
	really try to focus on those that IARC has demonstrated data and
	we have exposure data to match IARC, and try to make this
	scientifically rational so that we engender the respect that we
	need.
	So I would vote I would recommend voting against the motion.
	<b>MS. SIDEL:</b> I see that they don't is it okay to speak?
	DR. WARD: Yes, thank you.

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1	<b>MS. SIDEL:</b> You know, this is a really this is just such a tough
2	issue
3	DR. HARRISON: Susan, this is Bob Harrison. Would you talk up a
4	little bit? I'm having trouble hearing you.
5	MS. SIDEL: Sure sure, sorry. Is this better?
6	<b>DR. HARRISON:</b> Yeah, that's a little better.
7	MS. SIDEL: Okay. I was just saying that this has just been tough
8	because I feel I feel option one and option two, but the problem
9	that I have with option two is that so much of the information is
10	dependent on things like occupational studies or exposure data.
11	And you know, occupational studies don't discuss women. Most of
12	them are all about men so there's like a gender bias in there. And
13	then a lot of the other problem I have is that the exposure data is
14	so faulty that the chemicals that were there, that we could say this
15	chemical causes X, we don't have that necessarily. We also don't
16	know what the synergistic effect is of everything all together. So
17	it's so hard to just choose option two and say because I just I
18	feel as though there's so much potential for so many other kinds of
19	cancers that we just don't have we just don't have access to the
20	data that we need to support to support it. You know, for
21	example, like breast cancer. You know, maybe the chemicals down
22	there could cause breast cancer, but we didn't find that on the
23	IARC chart. But does that not mean that combinations of the
24	chemicals there could have caused it or just the whole you know.
25	Then the other issue also is that what happens when your body is
26	already so compromised, you know, by by the toxins? And even
27	just following the other paths of inflammation and the diseases
28	that have already been covered under the health the World
29	Trade Center health bill, not everything is covered because not
30	everything has been explored. I mean there has never been the
31	money or the time available to explore all the problems that
32	people have. And you know, people get diagnosed, you know,
33	outside of the program with things that should be included in the
34	program, but it's just been impossible to do that. I mean the drug

1	is new but we've been you know, we started under the Bush
2	administration who were fighting tooth and nail for all health
3	consequences, which is a lot of the reason why we don't have the
4	exposure data that we need. So I don't know if that's scientific, but
5	the science is that that it should be there, but it's not there and
6	it's difficult to exclude something when you know that it's data that
7	should be there although it isn't because it just happens to be the
8	way things are at this point. Thank you.
9	DR. WARD: Thank you. Next speaker, please?
10	MS. FLYNN: This is Kimberly. I just want to speak up again in
11	response to the idea that we should solely rely on the occupational
12	literature. The occupational literature is extremely limited.
13	Studies often look at chemical by chemical or in clusters of
14	chemicals instead of taking account of the full breadth
15	combinations and concentrations of chemicals to which residents,
16	responders and survivors were exposed on and after 9/11.
17	Occupational studies, as has already been pointed out, the
18	occupational literature for the most part has not included women.
19	It was developed at a time when women had not yet entered those
20	types of jobs. Often occupational studies utilized OSHA standards,
21	which occupational safety and health experts will tell you have a
22	political component and are not as protective as they should be.
23	And occupational exposures do not take into account sensitive
24	populations or issues of genetic polymorphism.
25	I guess I after I talked about the limits of occupational studies,
26	there actually is a 2010 study called 'Occupation and Cancer' in
27	Britain that talks about shift work as an important risk in
28	developing female breast cancer. So I don't know whether or not
29	that made it into the IARC monograph, but we might consider it.
30	At any rate, I think that using occupational literature, as I have said
31	in the past, as the sole basis or as even the main foundation of our
32	decision means that we will be incorporating many of its flaws and
33	limitations.
34	<b>DR. HARRISON:</b> Liz, this is Bob Harrison. May I speak?

1	DR. WARD: Yes, please.
2	<b>DR. HARRISON:</b> Okay. It's really a question, in consideration of
3	the motion to approve all cancers, whether our advisory committee
4	should take into consideration any statutory language or guidance
5	from the Zadroga Act itself? In other words, what what criteria
6	or scientific evaluation criteria should we be applying, if any, to
7	consider these two options? Is there any standard by which we
8	should consider this? Am I am I clear in my question?
9	<b>DR. WARD:</b> Yes, and I'll defer to Paul for the answer. I think we've
10	talked about this before and the answer is really that the
11	Committee is really being requested to develop the criteria as well
12	as apply it. But Paul, would you like to respond?
13	<b>DR. MIDDENDORF:</b> Yeah, and if you're looking at the Zadroga Act
14	for guidance in terms of how to make the decision, it gives very
15	little. It basically says that the Administrator will need to review
16	the scientific evidence to make his decision. So the Administrator
17	has come to the science to the STAC and essentially has said 'I
18	need you to help provide that scientific evidence so that I can
19	move forward to essentially add covered conditions to the list.'
20	DR. HARRISON: Thank you, Paul. I would like to then speak in
21	opposition to the motion to accept option one to cover all cancers,
22	largely based on the concept that cancer is multifactorial. I think
23	as suggested earlier by Dr. Rom, there are cancers for which there
24	is substantial or other, more limited, scientific evidence for a
25	relationship between occupational and environmental exposures
26	than that cancer end point, and that departing from that principle
27	by covering all cancers I think would be in my view, I think
28	inconsistent or contrary to the you know, the best scientific
29	principles, and I think would establish a represent that would -
30	- that would really not not be consistent with other authoritative
31	findings for a decision. I think, as Dr. Rom pointed out, would be a
32	sort of a leap, a departure. So I would I would argue against
33	option one.
34	MS. DABAS: Hi, this is Valerie. I just had a question for the two

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1	people that are against option one. Could they name two cancers
2	with absolute certainty that they would believe that have no
3	environmental cause for those cancers?
4	DR. HARRISON: I would not. In fact, I think that's a this is
5	that's a very good question. This is Bob Harrison again. I wouldn't
6	be able to name cancers for which, with absolute certainty, there's
7	no association or possible linkage between an occupational or
8	environmental cause and that cancer. That being said, I think there
9	are certain cancers for which, at this point in time, there's
10	insufficient evidence to conclude that there is such a link. And I
11	think that there's a difference between those two statements.
12	MS. DABAS: Well, my question in fact
13	<b>DR. HARRISON:</b> For example, I would you know, if we get to the
14	you know, if if we move on from option one, depending on the
15	vote, to where we talk about specific cancers, I think we would
16	have a discussion and debate about prostate cancer, for example,
17	where I personally think that, although the evidence is suggestive,
18	it doesn't yet reach the level of significance that I believe that we
19	could link occupational/environmental exposures in many cases to
20	prostate cancer. That's just an example which is not to say that
21	there's not a linkage, but unless we were to have additional
22	scientific evidence, perhaps from studies that are going to be
23	forthcoming, I would suggest that there's probably the evidence
24	for prostate cancer does not equal the evidence for lymphopoietic
25	cancers or for aerodigestive cancers.
26	<b>DR. ROM:</b> This is Bill Rom. That's a complicated question that
27	would take a whole course to answer, but there's limited evidence
28	for prostate, for example. Breast has been a struggle for years to
29	try to find some linkages and we're working really hard on that.
30	Uterine cancer is another one that's a challenge. There's some rare
31	uterine cancers like clear cell carcinoma are related to drugs and
32	previous generations. Small intestine and skin we have one of
33	the more common cancers and, you know, beyond UV light and
34	Percivall Pott's scrotal observations we have very limited evidence,

1	so you have to go by site by site and histology by histology and
2	review all that. And we spend our lives trying to find the
3	associations and some of these are very difficult. Brain cancer, for
4	example, has been a challenge and we've been trying for years to
5	try to find environmental and occupational exposures for brain
6	cancer. And then there's a whole host of genetically-linked
7	cancers, and then some that are linked to viruses, and then diet is a
8	huge topic related to cancer. So it's a complicated question that
9	would take a long time to fully answer.
10	MS. DABAS: Thanks, Dr. Rom. I think Dr. Harrison answered it in
11	that there's nothing we can say for sure with 100 percent certainty
12	has no environmental links with cancer. So there's not one site
13	that we can say with 100 percent certainty that there's no way that
14	this person could have gotten it based on their environmental
15	exposures.
16	DR. TALASKA: Hi, this is Glenn Talaska. I'd like to speak against
17	the motion. I do believe that we need to provide the Administrator
18	with scientific arguments in favor of adding diseases, as he
19	requested. And I don't believe that the data are there that indicate
20	that all cancers should be covered by with our recommendation.
21	DR. DEMENT: Hi, this is John Dement. Could I speak as well?
22	DR. WARD: Yes.
23	<b>DR. DEMENT:</b> I'd like to also voice my opposition to the all cancers
24	issue. I think we've been charged with providing a rational
25	scientific basis for the selection of cancers to be included, if at all.
26	And I think we've approached it from a perspective of the best
27	evidence possible. I really think if we go the all cancer route
28	although I'm very sensitive to the issue of rare cancers and there
29	not being sufficient data because of their rarity I think we have
30	the obligation to provide a sound scientific basis to the
31	Administrator, one that can be incorporated without a lot of
32	challenge.
33	I think we also need to be acknowledge when we do this that
34	there's a lot of uncertainty and there's a lot of area where, in the

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1	future, we should be continuously vigilant about sites that pop up,
2	based on either studies of World Trade Center populations or
3	studies elsewhere in the scientific literature.
4	MR. CASSIDY: Hello, this is Steve Cassidy. Hello?
5	DR. WARD: Yes, Steve, we hear you. Thanks.
6	MR. CASSIDY: I'd like to speak on the topic. Reluctantly I have to
7	say that I don't agree with all cancers either. I'd like to be there. I
8	recognize that those who suffered the most severe exposures are
9	more likely to come down with cancers that are not yet defined in
10	Dr. Prezant's study. I want to remind everybody, and I think they
11	all know it, that the study goes back to really just 2008. And when
12	you look at that study you have to recognize that there were a lot
13	of people probably had cancer in 2007, 2008, didn't know it at the
14	time. I know for a fact that there are a lot of firefighters have
15	come down with serious cancers some are dying, some have died
16	since Dr. Prezant's study that were not included in his study. So
17	you know, I would love for it to be all cancers, but I don't think that
18	we can do it based on what we've been tasked.
19	I do think that when we get to the second round of this, if that's
20	where we end up, and we have to look at biologic plausibility
21	versus strongest evidence, I think biologic plausibility is the key.
22	And I think, you know, there are cancers that need to be included
23	when we get there brain cancer and pancreatic cancer, for sure.
24	And maybe we can move on to that, but reluctantly I have to say
25	no.
26	MS. FLYNN: This is Kimberly, and I'd like to just raise I guess a
27	point of clarification, refer to the testimony of Dr. Melius. Yes,
28	cancer we accept that cancer is a multifactorial disease. But
29	there are many checks and balances. Once the STAC makes the
30	recommendation, the implementation of that recommendation is
31	going to mean that the physician of each patient has to attribute
32	the cancer to World Trade Center well, first of all there's the
33	diagnosis of the cancer, and then there is the attribution of the
34	cancer. And that physician will of course be taking into account the

1	whole history of exposure to World Trade Center in detail. So I
2	you know, it's not the case that we should be kind of making that
3	decision out in advance by saying 'Well, you know, certain cancers
4	there's some evidence for but it's just not quite enough for us to
5	add those cancers to the list.' And there are steps of scientific and
6	medical evaluation down the line before anyone is accepted for
7	treatment or anyone's treatment is covered.
8	<b>DR. WARD:</b> This is Liz. I did want to make a comment about that
9	and I'm hoping that some of the Committee members who have
10	occupational medicine and clinical experience will comment on it
11	as well, 'cause from my point of view as an epidemiologist for
12	those cancers that don't have, you know, a substantial body of
13	evidence supporting their potential association I would be hard-
14	pressed I mean I'm not sure how a physician would make that
15	determination about those cancers. I mean it's not in our
16	immediate, you know I mean we're not that's not exactly what
17	we're talking about here but I think it's relevant because it you
18	know, if there's no if there's very little evidence associating that
19	cancer potentially with the exposures, then there's very little
20	rationale or criteria to determine that one person's one person's
21	cancer is World Trade Center-related and the other's isn't.
22	So would any of the occupational physicians or practicing
23	physicians like to comment on that?
24	(No response)
25	<b>DR. WARD:</b> All right. Well, with no further comments on that,
26	we'll open the floor for the next speaker.
27	(No response)
28	<b>DR. WARD:</b> Is everyone still there?
29	UNIDENTIFIED: Yes, we're all still here.
30	<b>MS. SIDEL:</b> Well, I actually have a question. Maybe Paul can help.
31	<b>DR. WARD:</b> Sure, go ahead.
32	MS. SIDEL: Okay. Is there a safeguard with in place, going
33	forward so if Dr. Howard when he was speaking, we meet at his
34	pleasure and we answer this question for him, and so until he has

1	another big question, we're sort of, you know, on call. Well, how
2	would we raise these issues if say new evidence becomes
3	available if everything is I'm just remembering that there's only
4	four years for this, or five years, for this whole Committee, how
5	could these how could issues for things that we don't have the
6	kind of evidence that we want to have when that evidence
7	becomes available, or is there some way that we can do research to
8	get the evidence?
9	DR. MIDDENDORF: Well, what would happen is if someone were to
10	petition the Administrator again to add cancer or a specific type of
11	cancer or another health condition, he then could come back to the
12	Committee and ask for the Committee's advice on it.
13	MS. SIDEL: I see. Okay. Thank you.
14	DR. WARD: What I'd like to do then is make sure see if there's
15	anyone else who'd like to speak either in favor of the motion or
16	against the motion. And if not, call for a vote.
17	DR. MIDDENDORF: Okay. I'd like to make sure that the motion is
18	stated as the Committee wants it.
19	<b>MS. FLYNN:</b> So right now it's possible I'm sorry, this is Kimberly.
20	Is it possible for me to and I don't know my Robert's Rules all
21	that well, but to make a friendly amendment, citing a
22	precautionary principle as a scientific basis to include cancers that
23	are not listed under option two? The point being, you know, that
24	DR. MIDDENDORF: What I would need is wording here. How
25	would
26	MS. FLYNN: You would need wording.
27	DR. MIDDENDORF: Well, how would you word your proposed
28	amendment?
29	MS. FLYNN: What is the original could I ask you please to repeat
30	the original
31	DR. MIDDENDORF: The motion on the table is 'The Committee
32	recommends that all cancers be covered.'
33	MS. MEJIA: Hi, this is Guille. Just want to remind everyone that as
34	the maker of the motion I think I'm the one that has to accept the

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	amendment
	MS. FLYNN: Yes, you are.
	MS. MEJIA: to the motion.
	MS. FLYNN: Yes.
	DR. MIDDENDORF: So what would the amendment be?
	MS. FLYNN: I moved that any cancers not covered under option
	two would be covered under option one, under the precautionary
	principle.
	<b>MS. DABAS:</b> Hi, this is Valerie. Kimberly, is it possible that we ge
	a clean vote on this, just, you know, the first one, which was what
	Guille said?
	MS. FLYNN: Yes, I'll withdraw I'll withdraw the amendment.
	MS. MEJIA: Thank you.
	<b>DR. WARD:</b> Okay, so it's the motion has been called for a vote.
	Paul, do you want to do the
	DR. MIDDENDORF: Sure, I'll do an alphabetical voting.
	Tom Aldrich?
	DR. ALDRICH: I vote against this motion.
	DR. MIDDENDORF: Okay, vote no. Steve Cassidy?
	(No response)
	DR. MIDDENDORF: Steve? You're not coming through if you're
	speaking.
	(No response)
	DR. MIDDENDORF: Steve?
	(No response)
	DR. MIDDENDORF: I can't hear Steve so I'm going to go on to
	Valerie Dabas?
	MS. DABAS: I vote for.
	DR. MIDDENDORF: Vote yes. John Dement?
	DR. DEMENT: No.
	DR. MIDDENDORF: Kimberly Flynn?
	MS. FLYNN: Yes.
	DR. MIDDENDORF: Bob Harrison?
	DR. HARRISON: No.

DR. MIDDENDORF: Catherine Hughes?
(No response)
DR. MIDDENDORF: Catherine?
MS. HUGHES: I'm back, please.
DR. MIDDENDORF: You're yes or no?
MS. HUGHES: If we vote this down, can we add cancers under
option two?
DR. MIDDENDORF: Yeah, I mean there's nothing that says that
MS. HUGHES: Well we can cover that today, is there
DR. MIDDENDORF: Yeah, that can still be done.
MS. HUGHES: It still can be done, because it seems that brain,
thyroid and breast are
DR. MIDDENDORF: We're past discussion at this point, Catherine.
We need to move on. Vote yes or no.
MS. HUGHES: No.
DR. MIDDENDORF: I'm sorry?
MS. HUGHES: No.
DR. MIDDENDORF: Thank you. Steve Markowitz is not here.
Guille?
MS. MEJIA: Yes.
DR. MIDDENDORF: Carol is not here. Julia?
DR. QUINT: No.
DR. MIDDENDORF: Bill Rom?
DR. ROM: No.
DR. MIDDENDORF: Susan Sidel?
MS. SIDEL: No.
DR. MIDDENDORF: Glenn Talaska?
DR. TALASKA: No.
DR. MIDDENDORF: Leo Trasande?
(No response)
DR. MIDDENDORF: Leo?
(No response)
DR. MIDDENDORF: Virginia Weaver?
DR. WEAVER: Yeah, I just had some audio difficulties. I was callir

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	in on the line where I was not able to speak.
	DR. MIDDENDORF: Okay.
	<b>DR. WEAVER:</b> So we're now voting for or against option one. Is
	that correct?
	DR. MIDDENDORF: That is correct, and motion one is'The
	Committee recommends that all cancers be covered.'
	<b>DR. WEAVER:</b> Okay. So just so for the record, I've been on the
	call the entire time
	DR. MIDDENDORF: Okay.
	DR. WEAVER: and have not heard the vote so far, but I would
	vote against that motion.
	DR. MIDDENDORF: Okay. I'm going to go back to Steve Cassidy.
	Steve, are you on?
	(No response)
	DR. MIDDENDORF: I can't hear anything from Steve.
	And Leo Trasande?
	(No response)
	DR. MIDDENDORF: And make sure you're not on mute.
	(No response)
	DR. MIDDENDORF: Okay. Liz Ward?
	DR. WARD: I would vote no.
	<b>DR. MIDDENDORF:</b> Okay. Of those voting I have ten nos and one
	two, three three yes.
	So it's back to you, Liz.
	DR. WARD: All right. So for the next option we need a motion
	there's a couple of motions that could be made. One would be to
	discuss each organ site or grouping of sites individually. The othe
	could be to accept all of the sites that are currently listed, and I
	guess in either case we can also make separate motions to add
	addi for additional sites. But I guess probably the most efficien
	way to do it would be to talk about for someone to make a
	motion well, I guess why doesn't someone make a motion as
	how to proceed on option two?
	MR. FLANIGAN: Can I speak?

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DR. WARD: Yeah.
MR. FLANIGAN: Hi, my name is Shawn Flanigan. Something that
wasn't mentioned, the sarcomas or bone cancers okay? And I
know that there was a lot of speaker earlier on scientific data
DR. WARD: Excuse me, Mr. Flanigan, are you a member of the
Scientific and Technical Advisory Committee?
MR. FLANIGAN: No.
<b>DR. MIDDENDORF:</b> Okay, this part of the meeting is not open to
you, sir.
MR. FLANIGAN: All right.
<b>DR. MIDDENDORF:</b> Please go to mute.
MR. FLANIGAN: Thank you.
<b>DR. WARD:</b> Okay. Is there anyone on the Committee who would
like to make a motion?
<b>MS. DABAS:</b> Hi, it's Valerie. I make a motion for the second
option, but to include breast, pancreatic and brain cancer.
DR. TALASKA: Glenn Talaska. Are you going to entertain multiple
options or just one at a time?
<b>DR. WARD:</b> Paul, what's your recommendation on that?
DR. MIDDENDORF: Why don't you I think what might be helpfu
is if the Committee discussed how it really wants to proceed,
whether or not it wants to go down the road of looking at
everything all combined or if it would rather try to split this up.
<b>DR. TALASKA:</b> Could we do it in this fashion? Could we if there
are anyone has any objections to any of the specific cancers tha
are cited in the in option two thus far, why don't we bring them
up and then we could have a section where we add cancers?
MS. DABAS: Hi, this is Valerie again. I think there is a motion on
the floor currently.
UNIDENTIFIED: I agree with you, Val.
<b>DR. WARD:</b> Okay, so the motion as I understand it that's on the
floor is to include all of the all of the cancers and organ groups
currently listed in option two, and in addition to include breast
cancer, pancreatic cancer and brain cancer. Is there a second for

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	that motion?
	MS. FLYNN: Kimberly, I second.
	<b>DR. WARD:</b> Okay. So I think we'll have discussion on that motion
	and then a vote. If it does not carry, then we can see if we want to
	adopt Glenn's suggestion. Let's have discussion on that on that
	motion.
	<b>DR. ALDRICH:</b> This is Tom Aldrich. Can I say a word?
	DR. WARD: Sure.
	<b>DR. ALDRICH:</b> I think the discussion we had on option one pretty
	much informs the result of this motion. I think the big part of the
	reason option one did not carry was that a number of people felt
	that there was there were some cancers, some of which were
	included in option two, that for which there is insufficient
	evidence. It seems almost a foregone conclusion what the results
	of this vote is and I think we should just get right to the vote.
	DR. WARD: Is anyone opposed to that?
	UNIDENTIFIED: I think it's good.
	<b>DR. WARD:</b> Okay, so let's proceed with the vote, Paul.
	<b>DR. MIDDENDORF:</b> Okay. So what I've done is to copy all of the
	bullets from motion two that are from the draft report. And then
	also at the bottom here is 'and include breast, brain and pancreation
	cancer.' The question for the Committee is how would we is tha
	sufficiently clear to what the Committee is voting on, because you
	have a lot of ICD codes and things like that listed for the other
	types of cancer. Does that information need to be included here?
	Do you know specifically what you're voting on?
	DR. WARD: My thought would be, Paul, that probably the
	Committee has a common understanding of what we mean and
	that if if we were to adopt this motion that we would then have
	time during the remainder of the meeting to add that additional
	information to it the text and the draft.
	DR. MIDDENDORF: Okay.
	DR. HARRISON: Liz, this is Bob Harrison.
	DR. WARD: Yes.

1	DR. HARRISON: Those are three separate cancers, as I understand
2	it, that we're being asked to vote on as a group. Yet some
3	Committee members, including myself, may vote differently for
4	each one of those three sites.
5	<b>DR. WARD:</b> Well, I think that's okay because I think this particular
6	motion is well, I guess in the end of the day this particular
7	motion is basically saying we include all the sites that were listed
8	under option two plus these three sites. And if this mot you
9	know, so if this motion carries, it's true, if that's your only I mean
10	I guess the quest
11	DR. HARRISON: Okay, I no, I understand the motion on the
12	table.
13	DR. WARD: If it doesn't carry then we'd have the option of looking
14	at each site each site or group that was listed, plus each of these
15	three sites individually.
16	DR. HARRISON: Thank you for clarifying that.
17	<b>DR. WARD:</b> So with that, I guess we're ready for the vote, Paul.
18	DR. MIDDENDORF: Okay. For motion two, again we'll go
19	alphabetically with the Chair voting last. Tom Aldrich?
20	DR. ALDRICH: No.
21	DR. MIDDENDORF: Steve Cassidy?
22	MR. CASSIDY: Yes.
23	DR. MIDDENDORF: Valerie Dabas?
24	MS. DABAS: Yes.
25	DR. MIDDENDORF: John Dement?
26	DR. DEMENT: No.
27	DR. MIDDENDORF: Kimberly Flynn?
28	MS. FLYNN: Yes.
29	DR. MIDDENDORF: Bob Harrison?
30	DR. HARRISON: No.
31	DR. MIDDENDORF: Catherine Hughes?
32	(No response)
33	DR. MIDDENDORF: Catherine, are you on?
34	MS. HUGHES: Yes, thank you.

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	DR. MIDDENDORF: Are you what is your vote?
	MS. HUGHES: Yes.
	DR. MIDDENDORF: Okay. Steve Markowitz is not here. Guille
	Mejia?
	MS. MEJIA: Yes.
	<b>DR. MIDDENDORF:</b> And you're voting yes. Okay. Carol North is
	not here. Julia Quint?
	(No response)
	DR. MIDDENDORF: Julia?
	DR. QUINT: No.
	DR. MIDDENDORF: No, okay. Bill Rom?
	DR. ROM: No.
	DR. MIDDENDORF: Susan Sidel?
	MS. SIDEL: Yes.
	DR. MIDDENDORF: Glenn Talaska?
	DR. TALASKA: No.
	DR. MIDDENDORF: Leo Trasande?
	(No response)
	DR. MIDDENDORF: Virginia Weaver?
	DR. WEAVER: No.
	DR. MIDDENDORF: Liz Ward?
	DR. WARD: No.
	DR. MIDDENDORF: Okay. I have of those voting, eight voted no,
	six voted yes, so the motion does not carry.
	DR. WARD: One procedural question 'cause Steve Cassidy was bacl
	on the phone for this vote. Steve, did you attempt to vote on the
	first motion? 'Cause I think we didn't hear you.
	MR. CASSIDY: I did vote on the first motion. I voted reluctantly
	no.
	DR. WARD: Okay.
	MR. CASSIDY: The first option you mean, right?
	DR. WARD: Yeah, yeah.
	DR. MIDDENDORF: I will go back initially I had you as not voting.
	I will put you down as a no then.

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	<b>MR. CASSIDY:</b> I must have I gave a nice speech, you must have
	missed it. I must have been muted.
	<b>DR. MIDDENDORF:</b> No, it's just when we went to the roll call vote
	you didn't come in on it, so
	<b>DR. WARD:</b> Yeah, I'm hoping we're not having you know, missir
	people on votes because of technical difficulties, so I guess we'll -
	we will go back and check on those who were missing from the
	second voting voting round, just to make sure we didn't we
	didn't miss their vote because we couldn't hear them.
	Okay. So then I think the next logical step might be to proceed th
	way Glenn suggested, just to have a you know, an initial
	discussion and ask for people to speak on those cancer sites that
	they're opposed to including on that original list, or cancer sites
	that they would like to see added. Why don't we do the ones that
	people are opposed to including from the original list first, just to
	keep everything organized so the floor is open.
	<b>DR. ALDRICH:</b> This is Tom Aldrich. I oppose the inclusion of
	prostate cancer for the reasons that are discussed in I think it's
	the second paragraph about prostate cancer.
	<b>DR. WARD:</b> Okay, thank you. Now Paul, I think I just might have
	made a procedural error. Do we need a formal motion to open th
	floor for a discussion on the
	<b>DR. MIDDENDORF:</b> I think we need a motion that people will be
	discussing; something very specific.
	<b>UNIDENTIFIED:</b> Yeah, I think at some point we can just move that
	certain whether we agree, so or we could have Tom could
	make a motion, and if no one seconded it, then it would die, for
	example. And then if not, then we could have so if someone
	suggests that one cancer be removed, we could have a second on
	that motion to remove it, and then if not, then that motion to
	remove it would die and then we could go on to a discussion and
	vote on whether that specific cancer should be removed. We cou
	go one by one if we wanted.
	<b>DR. MIDDENDORF:</b> Yeah, another potential for the Committee to

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	consider is whether or not it wants to go through the bullets that
	were in individual bullets and just do those. So at some point
	you will come up with something you don't want to include and yo
	can make a motion to to pull them out.
	UNIDENTIFIED: Bullets where? I'm sorry.
	<b>DR. MIDDENDORF:</b> From the report, the draft report.
	<b>UNIDENTIFIED:</b> Okay, but I was just looking for where we had it.
	DR. MIDDENDORF: In option two.
	UNIDENTIFIED: Okay, hold on.
	<b>DR. WARD:</b> I mean one way to do that might be to find out like
	we go to the first bullet we might say 'Is anyone opposed to
	including including (indiscernible) neoplasms of the respiratory
	system' or wish to propose that specific cancers within that
	grouping be excluded. And then if not, we can just go we don't
	really need discussion. We can go for the vote.
	DR. ALDRICH: That makes really good sense. We could group the
	vote.
	MS. DABAS: Do we sort of know that there are going to be a
	couple of problems, and maybe we could just go to those?
	DR. WARD: Well, I think that was what Glenn was proposing, and
	guess either way is fine. It seems that we probably will want
	since we're including these since we're considering these
	individually, I think we'll probably want a vote on the record
	anyway, so it might be just as efficient to go through them one by
	one, have the vote, if they're I mean find out if there's anyone
	who wants to speak against it or modify it and then let's go to the
	vote.
	DR. HARRISON: Yeah, I think particular cancers I mean most of
	us are going to agree with most of the ones on the list, perhaps. A
	least that would be my surmise. To go over each one and to vote
	to include each one is not you know, our report includes them
	already. We just I think it would be more efficient if we just
	voted to remove particular ones.
	DR. MIDDENDORF: This is (indiscernible). I think you need to

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1	move or make motions to include and/or exclude. It needs to be
2	on the record in both directions.
3	MS. HUGHES: Catherine Hughes here. On prostate cancer I
4	understand the Veterans Affairs for Agent Orange does include
5	prostate cancer, and some of the chemicals that were in Agent
6	Orange were down at the World Trade Center as well point of
7	clarification.
8	MR. CASSIDY: Liz, Steve Cassidy.
9	DR. WARD: Yes, Steve.
10	MR. CASSIDY: My thought was I mean that was a very close
11	vote, eight no, six yes. I mean maybe maybe there's a consensus
12	or maybe there's a theme emerging among the eight nos that to
13	be fleshed out, which would make this an easier process to have a
14	second vote. I don't know if there's
15	<b>DR. WARD:</b> That's fine. I mean what we can do is I guess we can
16	talk about we can make a motion to proceed that way, and then
17	if we need the formality of a vote on each and every one, we can
18	do that.
19	<b>DR. ROM:</b> Liz, this is Bill Rom. I would like to second Tom Aldrich's
20	motion that the entire second list be accepted, with the exception
21	of prostate cancer, and have a vote.
22	DR. WARD: Shall we so that's the formal motion, Paul, so we
23	take a vote on shall we proceed on that motion?
24	DR. MIDDENDORF: This motion does not include breast, brain or
25	pancreatic. Is that correct?
26	<b>DR. ROM:</b> That's correct.
27	DR. MIDDENDORF: Let me pull all this down and I will find
28	<b>DR. WARD:</b> But it doesn't close the it doesn't close the option of
29	discussing brain, breast
30	<b>DR. MIDDENDORF:</b> No, it's just that they aren't included in this
31	particular one.
32	DR. WARD: Right.
33	<b>DR. MIDDENDORF:</b> I'm looking for the bullet on prostate.
34	<b>DR. ALDRICH:</b> It's page six, starts on line 26, I think.

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	<b>DR. MIDDENDORF:</b> Okay, here it is, 'Committee recommends
	prostate' so it comes down to here. Is it Liz, do you want to loo
	or who made the motion?
	DR. ALDRICH: That was me, Tom.
	DR. MIDDENDORF: Tom, do you want to check and make sure the
	I've highlighted the part you want me to remove?
	DR. ALDRICH: Yes.
	DR. MIDDENDORF: It is the correct section?
	DR. ALDRICH: Yes, it is.
	DR. MIDDENDORF: (Unintelligible)
	<b>DR. ALDRICH:</b> I had another change that I'd like to recommend.
	this the time to do it or not?
	DR. MIDDENDORF: Yeah, I think you can amend your own motion
	yes.
	DR. ALDRICH: Well, regarding the cancers of the eye let me fin
	out where that is again oh, it's page seven, line 16, cancers of t
	eye and the orbit be listed for individuals engaged in welding. Yo
	know, World Trade Center exposure was notable for a tremendou
	volume of eye irritation, such that emergency treatment of
	washing out the eyes was the most common emergency treatmer
	that was provided acutely, and it was far more than welders. So
	think it would be a reasonable extrapolation to say that, with the
	amount of foreign bodies present in the eyes of World Trade
	Center responders, and probably residents, it ought not to be
	limited to welders.
	DR. WARD: So we could just drag the language end at 'World
	Trade Center-related condition' and strike the
	DR. ALDRICH: That's what I would recommend.
	MS. HUGHES: Catherine, Catherine seconds it.
	MR. CASSIDY: Did did was that a formal motion, that we
	MS. HUGHES: It's a formal motion.
	MR. CASSIDY: that we take that no, he has to make that as a
	formal motion.
	<b>DR. ALDRICH:</b> Yes, well, I would if I'm allowed to.

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1	MR. CASSIDY: Okay. And would you add it to your other one is
2	what I'm asking.
3	DR. ALDRICH: If I'm allowed to.
4	MR. CASSIDY: Okay. So both those changes.
5	I second it, too.
6	DR. MIDDENDORF: The motion on the table is for this 'engaged in
7	welding.'
8	<b>DR. ALDRICH:</b> You can get rid of everything after 'condition.'
9	DR. WARD: Right.
0	DR. MIDDENDORF: After 'condition', okay. Okay, you want the
1	next sentence struck as well?
2	DR. ALDRICH: Yes.
3	DR. MIDDENDORF: So is that the way you want it to read, 'The
4	Committee recommends that cancer of the eye and orbit be listed
5	as a WTC-related condition'?
6	DR. ALDRICH: Yes, but the next then there should be a carriage
7	return.
8	DR. MIDDENDORF: Got it, okay.
9	DR. WARD: So if the Committee votes in favor of this motion, we
0	may need to add a sentence there regarding the rationale, but we
1	can go ahead and vote because I mean I think the rationale
2	was stated, but I don't think it was captured, so we'll have to
3	capture it.
4	MS. HUGHES: Liz, Catherine Hughes here. As a former I used to
5	do construction way back when. Typically you're supposed to have
6	shields around to protect where welding is, so even if you're not
7	actually doing the welding you can also be exposed, and there was
8	intense dust and smoke in the air for months.
9	DR. WARD: All right.
0	DR. HARRISON: So Liz, this is Bob. Just so I understand, the
1	proposal on the table is to eliminate the connection to welding and
2	list it just as cancer of the eye and orbit.
3	DR. WARD: Right, and the rationale would be that the eye was of -
4	<ul> <li>you know, the irritation of the eye was a frequent event among</li> </ul>

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	people who were working at the site, so the rationale is that you
	know, that the direct contact with the materials was causing
	irritation. The original ration
	UNIDENTIFIED: Would somebody on the call be able to speak to
	the scientific or epidemiological evidence regarding cancer of the
	eye and orbit relative to irritants, as opposed to welding? I don't know this literature.
	<b>DR. WARD:</b> Yeah, and the welding really came from the IARC
	determination, so the so in the IARC compilation of cancer
	science related to specific exposures, eye was specifically called
	out for welding and not for anything else. I mean but I think the
	rationale could be along the lines I think somewhere in here
	where we talked about lip cancer I yeah, I think the lip on pa-
	on my updated draft is bottom of page five, but we basically
	since lip, oral cavity and pharynx have not been specifically
	designated in any of the sources, but because it's connected to all
	the other you know, upper respiratory tract and the digestive
	tract the rationale was that the lip, oral cavity and pharynx have
	a high potential for direct exposure to toxic materials through
	hand-to-mouth contact. And we've already included skin cancer,
	the eye is another, you know, surface on the body where you
	would expect that there would be direct contact with toxins.
	DR. ALDRICH: Where we know there was direct contact, because
	there is literature about numbers of people who required eye
	irrigation.
	DR. WARD: Right.
	DR. HARRISON: This is Bob. Just a follow-up question. Is there
	anything in the rationale and this would probably mean going
	back to the IARC document to understand why they listed welding
	that's specific to welding fumes as opposed to other irritants that
	would have been present at or were present at Ground Zero?
	DR. WARD: Not to I mean I yeah, I did not look at that source
	document from IARC for that specific exposure.
	<b>DR. DEMENT:</b> Hi, Liz, this is John Dement. I think the issue with

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	IARC is simply they were reviewing welding as an exposure
	generally, and looking at sites where cancers were increased. So
	addition to eye, the document talks about lung and some other
	sites.
	DR. HARRISON: John, this is Bob. So there were no other so it
	was a epidemiological observation, not specifically linked to some
	exposure?
	DR. DEMENT: No, it's
	DR. HARRISON: In the IARC review.
	DR. DEMENT: Yeah, yeah, you know, IARC reviews typically
	exposures that they review some
	DR. MIDDENDORF: Hang on for just a second. For the purposes
	the transcript and the record, it would be helpful if people would
	identify themselves before just jumping in.
	DR. HARRISON: That was Bob Harrison making a comment and the
	I think that was John Dement responding.
	DR. WARD: I also think that I I mean I am in favor of keeping it
	with the rationale, but I also think that eye and orbit is such a rar
	site, so we're going to I mean it will it would if we vote to
	include the rare cancers, I think it will probably would be
	included for that reason as well.
	DR. ALDRICH: Well, I think that this is Tom Aldrich. I think
	there's more specific, admittedly indirect extrapolative evidence
	for eye cancers to be expected than for other rare cancers
	DR. WARD: Yeah, yeah.
	<b>DR. ALDRICH:</b> but it's fully speculative.
	<b>DR. WARD:</b> Yeah, yeah. So I guess the ques so so to the folk
	who are questioning whether what the specific mechanism or t
	specific agent would be, do you feel like you have enough
	information to vote on the motion, or do or how should we
	proceed?
	DR. HARRISON: Yeah, this is Bob Harrison. I Liz, I confess I
	simply don't have enough information. Eye cancers are extremely
	rare. I don't think I've ever encountered a case in my 30 years of

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1	occupational medicine practice, and there's certainly biological
2	plausibility to think that if IARC was to (indiscernible) for welding
3	for welders, that a mechanism would be irritation. But I just don't
4	know beyond welding whether there's any other toxicologic or
5	scientific literature that would support eliminating the clause. I
6	just simply confess I I have insufficient information.
7	DR. WARD: Okay.
8	MR. CASSIDY: This is Steve Cassidy. Can I just say something?
9	DR. HARRISON: Yeah.
10	MR. CASSIDY: Somebody somebody earlier, I don't know who,
11	talked about the I think it was Tom talked about the number of
12	people who are who are recorded as having their eyes cleaned
13	and washed. And having been there, I can tell you that the Red
14	Cross and other volunteers were there every day washing the eyes
15	of first responders. I would say that virtually every first responder
16	who was there needed to have his eyes irrigated day after day after
17	day. So I don't know if there's any data out there that talks about
18	people having dust in their eyes for 30 or 60 days, over a 90 or 120-
19	day period, so maybe there is no study that we can compare this
20	event to, but but I know that irritants cause cancer, and that
21	people's eyes were irritated at a level probably never before seen,
22	on an ongoing basis not a one-time, not one day, ongoing.
23	<b>DR. MIDDENDORF:</b> This is Paul. Just something that you may want
24	to think about is that welding many forms of welding can
25	generate ultraviolet light, which is an ionizing form of radiation.
26	<b>UNIDENTIFIED:</b> May I say something also as a point of what Steve
27	just said? I just want to say that our supply tent went through
28	boxes full of cases of saline solution and we didn't I mean I think
29	we were just using the kind of saline solution that you use for
30	contact lenses, and we were just constantly running out. It was
31	people just we just went through it, like tons of it. I know that's
32	not very scientific, but it was just always used every day for as long
33	as I was down there, which was three months. Thanks.
34	MS. HUGHES: Catherine Hughes here. I also just learned that

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	there were wash basins at the edge of the Pile that were used
	regularly to clean the eyes, as well.
	<b>DR. HARRISON:</b> Liz, may this is Bob Harrison. May I be
	recognized?
	DR. WARD: Sure.
	DR. HARRISON: Thank you. Do we have a mechanism, as part of
	the Committee process today, to you know, to place issues like
	this on a in a so-called parking lot, or issues that we recognize,
	a Committee, are a potential concern or a possible possibly for
	listing, but that need further information or research or data? Th
	is I don't know where this will come up in additional discussion
	DR. WARD: Well, I think that where we are now is that we have a
	motion on the floor and we have a second to the motion, and we
	have an amendment that was proposed and was accepted by the
	person who made the original motion. So I think what we would
	need to do is call for a vote, see what the vote is and then you
	know, it's not you know, again, we can put anything in the
	parking lot, but unless John Howard chooses to take it out of th
	parking lot, it's you know, I but I do think we should go ahea
	and have a vote on the motion that was proposed, as amended
	as Paul has captured it. Paul?
	DR. MIDDENDORF: Yes. So the motion on the table now include
	all of option two, except for prostate, and removes welding from
	the discussion of the eye. It does not include breast, brain or
	pancreas pancreatic cancer. Is that correct? Is that the motion
	that you have, Tom?
	DR. ALDRICH: Yes, it is.
	DR. MIDDENDORF: Let's go ahead and take the vote then.
	UNIDENTIFIED: I have a question.
	DR. MIDDENDORF: Tom Aldrich?
	MR. CASSIDY: I have one question Steve Cassidy. Can I ask a
	question before the vote?
	DR. MIDDENDORF: Yes.
	MR. CASSIDY: Okay. If we vote yes, does that mean this is the

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1	final, or are there other people able to make motions to add things
2	to this particular motion? I mean is this the final?
3	DR. WARD: No. Well, I think the idea was we vote on this, and
4	then we have the opportunity to make motions to add additional
5	things.
5	MR. CASSIDY: Okay. Thank you.
7	DR. MIDDENDORF: So voting on motion three, which is all of
8	option two except prostate, and amending the discussion of the
9	eye to remove welding, and does not include breast, brain or
0	pancreas pancreatic cancer. So Tom Aldrich?
1	DR. ALDRICH: I vote yes.
2	DR. MIDDENDORF: Steve Cassidy?
3	MR. CASSIDY: Yes.
4	DR. MIDDENDORF: Valerie Dabas?
5	MS. DABAS: Yes.
5	DR. MIDDENDORF: John Dement?
7	DR. DEMENT: Yes.
8	DR. MIDDENDORF: Kimberly Flynn?
9	MS. FLYNN: Yes.
0	DR. MIDDENDORF: Bob Harrison?
1	DR. HARRISON: Yes.
2	DR. MIDDENDORF: Catherine Hughes?
3	MS. HUGHES: Yes.
4	DR. MIDDENDORF: Steve Markowitz is not here. Guille?
5	MS. MEJIA: Yes.
5	DR. MIDDENDORF: Carol is not here. Julia?
7	DR. QUINT: Yes.
8	DR. MIDDENDORF: Bill?
9	DR. ROM: Yes.
0	DR. MIDDENDORF: I'd better start using last names again. Susan
1	Sidel?
2	MS. SIDEL: Yes.
3	DR. MIDDENDORF: Glenn Talaska?
4	DR. TALASKA: Yes.

DR. MIDDENDORF: Leo Trasande?
(No response)
DR. MIDDENDORF: Virginia Weaver?
DR. WEAVER: Yes.
DR. MIDDENDORF: Liz Ward?
DR. WARD: Yes.
DR. MIDDENDORF: Well, that sounds like it carries unanimously
from those who voted 14 yes and zero no.
<b>DR. WARD:</b> Okay, so now we'll entertain motions on really
anything people want, including cancers that are proposed to be
added.
One question, Paul. Should we go ahead and take the scheduled
break?
DR. MIDDENDORF: I think that would be a good idea, give
everybody a chance to
DR. WARD: Think.
<b>DR. MIDDENDORF:</b> break or whatever they need to do.
DR. WARD: Yeah, great. Okay, so
DR. MIDDENDORF: That's for all of you for ten minutes.
UNIDENTIFIED: Liz, before we take a break, just one quick
question. Are we going to be able to return to say the letter and
the document for minor edits?
DR. WARD: I would hope so. I mean I I think first we should
wrap up the major issues, and then go through the more minor
ones.
DR. QUINT: Liz, this is Julia. What about factual errors, 'cause I
have
DR. WARD: Well, I don't I guess if they're significant, let's
discuss them on the call. If they're minor, send the corrections to
me and I'll make them in the document.
DR. QUINT: Okay, I
DR. MIDDENDORF: Make sure you send anything to me that you
send to Liz.
DR. QUINT: Absolutely. I don't know what you how you

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1	distinguish that, but there are some things that for which
2	they're incorrect, so
3	<b>DR. WARD:</b> Okay. Well, why don't we get why don't we talk
4	about them then. You know, hopefully we can you know, maybe
5	the order of business should be let's finish, you know, the major
6	recommendations, then we'll discu then we'll note any factual
7	errors, and then we'll go to any more minor editing.
8	DR. QUINT: Okay, thanks.
9	DR. MIDDENDORF: So let's take a ten-minute break. We'll be back
0	here in ten minutes sharp.
1	(Recess taken from 3:14 p.m. to 3:24 p.m.)
2	DR. MIDDENDORF: This is Paul again. We need to get started up,
3	so if everybody will come back to the phone.
4	DR. TALASKA: Okay, Paul, Glenn's on.
5	DR. MIDDENDORF: I'll do a roll call here in just a second.
6	DR. ALDRICH: Paul, this is Tom Aldrich. Can I send you some
7	suggested wording for that eye injury thing?
8	<b>DR. MIDDENDORF:</b> You mean for the body of the report?
9	DR. ALDRICH: Yeah.
0	DR. MIDDENDORF: Yeah, you can send it.
1	DR. ALDRICH: Thanks.
2	DR. MIDDENDORF: Okay, let's do a roll call just to make sure
.3	everybody's here. Tom Aldrich?
.4	DR. ALDRICH: Here.
.5	DR. MIDDENDORF: Steve Cassidy?
.6	MR. CASSIDY: Here.
.7	DR. MIDDENDORF: Valerie Dabas?
.8	MS. DABAS: Here.
.9	DR. MIDDENDORF: John Dement?
0	DR. DEMENT: Here.
1	DR. MIDDENDORF: Kimberly Flynn?
2	MS. FLYNN: Here.
3	DR. MIDDENDORF: Bob Harrison?
4	DR. HARRISON: Here.

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<b>DR. MIDDENDORF:</b> Catherine Hughes?
MS. HUGHES: Here.
DR. MIDDENDORF: Steve Markowitz is not here. Guille?
MS. MEJIA: Here.
DR. MIDDENDORF: Carol North is not here. Julia Quint?
DR. QUINT: Here.
DR. MIDDENDORF: Bill Rom?
(No response)
DR. MIDDENDORF: Come back to Bill. Susan Sidel?
MS. SIDEL: Here.
DR. MIDDENDORF: Glenn Talaska?
DR. TALASKA: Here.
DR. MIDDENDORF: Leo Trasande?
(No response)
DR. MIDDENDORF: Okay. Liz Ward?
DR. WARD: Here.
DR. MIDDENDORF: Virginia Weaver?
DR. WEAVER: Here.
DR. MIDDENDORF: Okay. Bill Rom, are you on yet?
DR. ROM: Here.
<b>DR. MIDDENDORF:</b> Okay, great. Okay, back to you, Liz.
<b>DR. WARD:</b> Okay, the floor's open for motions regarding changes
or additions to the recommendations under option two.
(No response)
<b>DR. WARD:</b> Okay, so just to be clear, this is the opportunity to
suggest adding additional cancers such as breast, pancreatic and
brain.
<b>DR. HARRISON:</b> Liz, this is Bob Harrison.
DR. WARD: Yes.
DR. HARRISON: On page seven of what I have as the draft I
printed, the last bullet it states 'The Committee recommends
that lymphoma, leukemia and myeloma' and then it references
Appendix 1 for the site and histology codes. Do those codes include both Hodgkin's and non-Hodgkin's lymphomas, or is it just

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the non-Hodgkin's lymphomas?
<b>DR. WARD:</b> At this point they include Hodgkin's lymphomas, and
they also include CLL, which I think Bill Bill has some concerns
about also. So that is something that we can discuss. Maybe
Paul, do we need a motion or can we just discuss it first?
DR. MIDDENDORF: You can have a little discussion, but if
somebody wants to change anything there'll have to be a motior
<b>DR. WARD:</b> Right, right.
<b>DR. HARRISON:</b> Yeah, I'm not I wasn't quite ready to make a
motion, and I may I apologize if I'm out of Robert's Rules of
Order here. I just had some concerns about whether we intend
include all lymphomas, both Hodgkin's and non-Hodgkin's
lymphomas. I think that the level of scientific evidence for
Hodgkin's disease or Hodgkin's lymphomas is less certain than fo
the non-Hodgkin's lymphoma.
DR. WARD: Yeah, and I can tell you why it was done this way, is
that in the the IARC monograph program has basically lumped
of these the leukemias and lymphomas together. And in part i
based on the rationale that when you're looking at the
epidemiologic studies, especially the historical studies of that
whole group, there have been so many I mean some of them
were based on death certificates where the classification of the
leukemia and lymphoma was was, you know, very broad. And
some cases the groupings have changed over time, so IARC kind
decided to lump all of them together because when you try to lis
them there's so much potential for inaccuracy. So that's so I k
of followed the lead of the most recent work by IARC where they
were kind of tabulating cancer sites associated with IARC
carcinogens and they basically put all of them together. But you
know, I agree with you from what I understand, and I did double
check when, you know, you made the comment that you know
there is very little occupational/environmental exposure that's
been associated with Hodgkin's lymphoma and quite a you kno
much more associated with NHL.

1	<b>DR. HARRISON:</b> Thank you, Liz. And with that explanation in terms
2	of how this is listed, I agree with the current listing and the phrase
3	then on page seven regarding the LACs. But I don't I don't have a
4	specific motion to make to amend that.
5	DR. WARD: Okay.
6	MS. DABAS: Hi, Liz, this is Valerie. I wanted to make not a motion
7	for a vote but a motion to discuss the inclusion of brain, pancreas
8	and breast cancer. I really would kind of like to get some feedback
9	as to why they were excluded, where are we on trying to get those
10	included. These are three cancers that we at the PBA have seen
11	very high amounts of.
12	MR. CASSIDY: This is Steve Cassidy. I'm interested in that
13	discussion, too, and I'm not sure that when that vote was taken,
14	and was lost eight to six, whether everybody voted no of the
15	eight simply because all three were added, any one particular of
16	the three, or if in fact it was the prostate cancer that was removed
17	from option two. So I'd like to know where people stand on that
18	also.
19	<b>DR. WARD:</b> Okay. Well, I'm comfortable with just opening the
20	floor for discussion on these three cancers without yet having a
21	formal motion, so anyone can begin.
22	MS. DABAS: This is Valerie again. I guess I would start with
23	pancreas cancer. I think that we've included the digestive system,
24	and the pancreas is considered part of the digestive system as well
25	as the endocrine system, and excluding that I think is very it
26	doesn't make sense on the idea of biological plausibility where I
27	read in some studies that they say that the inflammation also
28	causes pancreas cancer, that certain carcinogens can interfere with
29	the normal functions of cell growth, which is directly part of the
30	endocrine system. So I'm a little confused about why pancreas was
31	removed from the list was not on the list.
32	DR. WARD: Okay. Anyone else?
33	<b>UNIDENTIFIED:</b> Well, what are the grounds for adding it? What
34	are the scientific grounds for adding it, other than that you

1	know, we looked at the chemicals that were involved and we
2	couldn't see chemicals where we had any sort of documentation of
3	the exposure that were causing brain or pancreatic cancer, so I'm
4	just wondering why how we would justify their inclusion and who
5	should work on that.
6	DR. WARD: Who said that, you know I think I just double-
7	checked, and you know, in the kind of groupings that I used, which
8	were the SEER groupings, it is correct that pancreas is listed as a
9	digestive system cancer. I can read a answer it better I didn't -
10	- I actually didn't include all in this list of cancers, only those that
11	were specifically indicated by the other three sources, so so
12	among the digestive (inaudible) cancers there's esophagus,
13	stomach, small intestine which I didn't include; colon and
14	rectum, anus, anal canal and anorectum which I didn't include;
15	liver and intrahepatic bile duct which I did include. Then there's
16	gall bladder and other biliary I believe I didn't include; pancreas -
17	- which I didn't include. So it was really within the digestive tract I
18	included those that had been specifically implicated by any of the
19	(inaudible) sources. I also included retroperitoneum, peritoneum,
20	omentum and mesentery because I had a feeling that those kind of
21	overlapped with the mesothelioma, but they were kind of sites
22	where you might find mesotheliomas so I wanted to include them
23	with central mesotheliomas. So I guess that's the rationale that
24	was the you know, within the digestive tract, only those sites
25	that have been implicated by any one of the three (indiscernible)
26	were included.
27	UNIDENTIFIED: So can I make a motion to consider adding
28	pancreatic to the digestive system of organs?
29	UNIDENTIFIED: I second.
30	DR. WARD: Any discussion?
31	DR. MIDDENDORF: I need specific wording on the motion first.
32	UNIDENTIFIED: On page five, line 14, the Committee recommends
33	certain cancers of the digestive system. So under the long list of
34	esophagus, stomach, colon, rectum, liver, bile duct, da, da, da, da,

1	da, include pancreatic 'cause it's related in there.
2	DR. ALDRICH: This is Tom Aldrich. An important reason why all
3	those digestive tract cancers were included is because of exposure.
4	I mean direct exposure to high volume of dust because of all the
5	aspirated and swallowed material. And that doesn't get into
6	contact with the pancreas in the same sense that it does with
7	esophagus and stomach and small bowel and large bowel. And I
8	think that's a really important difference, and so the quality of the
9	evidence is different for the two types of digestive cancers.
10	UNIDENTIFIED: I guess then I look again at, you know, the
11	inclusion of we can look at digestive, but we could also look at
12	the endocrine system where we've included thyroid, we've
13	included kidney, we've included stomach, and then again we're
14	excluding pancreas. You know, that's two systems where we have
15	ample amount of organs that have been included but are including
16	choosing to exclude an organ that is there twice, essentially. And
17	then, you know, from speaking to some just looking at the
18	literature it says then the pancreatic cancer is one of the cancers
19	that is very difficult to diagnose, and that might be one of the
20	reasons why it hasn't made it on the list and the liver has.
21	<b>DR. MIDDENDORF:</b> I'm going to butt in for just a second and
22	remind people you need to identify who is speaking so that it's on
23	the record. So this motion was made by Tom Aldrich and the
24	motion was the Committee recommends adding pancreatic cancer
25	to the list of digestive tract cancers.
26	Is that the motion that's on the table?
27	<b>DR. ALDRICH:</b> Yeah, but it wasn't made by me.
28	DR. MIDDENDORF: Okay. Who was that made by?
29	UNIDENTIFIED: Catherine.
30	MS. HUGHES: Catherine Hughes.
31	DR. MIDDENDORF: Catherine, okay.
32	DR. WARD: And it was seconded by Valerie?
33	<b>UNIDENTIFIED:</b> I'll take a friendly amendment to Valerie's ideas,
34	too. Either one is fine.

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1	MS. DABAS: Yes, I would second Catherine's motion to add
2	pancreatic cancer.
3	DR. MIDDENDORF: That was Valerie speaking.
4	DR. WARD: Right. And then it was Tom speaking
5	DR. ALDRICH: Yeah, I said I think that the rationale for including
6	the tubular organs in the digestive tract makes a lot more sense
7	because it because there's rationale for heavy exposure. If
8	there's rationale for environmental causes of pancreatic cancer, I'm
9	open to it. I don't know that literature. And so I wonder if one of
10	the people who's more familiar with that literature would like to
11	comment on whether there's evidence of occupational or
12	environmental triggers for pancreatic cancer.
13	MS. HUGHES: Catherine Hughes here. I understand that
14	pancreatic cancer's on the fast track to be included under Agent
15	Orange for the Veterans Association, the VA.
16	(interference)
17	DR. WARD: We're getting some interference from somebody, so if
18	everybody would be sure they're on mute when they're not
19	speaking.
20	MS. FLYNN: This is Kimberly Flynn. As I understand it, there are
21	there is an increase in risk for pancreatic cancer from occupational
22	exposure to diesel and other fossil fuel combustion products.
23	Anybody know anything about that?
24	DR. TALASKA: Glenn Talaska. I couldn't see anything like that from
25	any of the PAH studies so that when I looked through the PAHs.
26	DR. WARD: There are two diesel studies that just came out and I'm
27	trying to locate them, but it's I think you know, the evidence
28	we were using was the evidence that was available from the IARC
29	monograph, and diesel is scheduled for re-review, but it was
30	their review was not available right now.
31	<b>DR. WEAVER:</b> This is Virginia Weaver. Could I just ask a question
32	of clarification?
33	DR. WARD: Sure.
34	<b>DR. WEAVER:</b> For the new cancers that we haven't discussed and

1	we haven't included in the document with a rationale for inclusion,
2	I guess that in the document to date we really approached it with a
3	eye to documenting exactly why we were including various cancers
4	and, since we have to finish this document in a timely fashion, it
5	would be difficult to take the additional three cancers and be able
6	to give them the same attention that the cancers that are in the
7	document to date have had. So could we revisit the parking lot
8	issue in terms of what our opportunities would be going forward if
9	we were not to include these cancers today?
10	<b>DR. WARD:</b> Well, as I understand it, it's quite likely that we may be
11	asked to address petitions in other words, if there are future
12	petitions to add other cancers to the list, Dr. Howard has the
13	option of asking our advice on those petitions. And at that point
14	you know, if he does ask for our advice, that we would have the
15	opportunity to review the new evidence and consider whether to
16	add those cancers. But it's also my understanding that there's I
17	mean it we basically do have to reach agreement today, and if
18	let's say the sense of us on the Committee if the majority of the
19	people felt that one of these three or two of these three cancers
20	should be included, then I think we would just have to write the
21	draft to indicate that, you know, this is the recommendation, this is
22	what the Committee was basing the recommendation on, and you
23	know, the time frame did not permit as full a rationale as what the
24	you know, as was provided by the other sites.
25	MS. HUGHES: Catherine Hughes here. On the breast cancer
26	there's recently an article in 2010 by Dr. Liu that PCBs enhance
27	metastic (sic) properties of breast cancer cells by activating the
28	ROCK, R-O-C-K, the Rho-associated kinase. It says the conclusions
29	of the summary article I have, it's PCBs enhanced the metastic (sic)
30	propensity of breast cancer cells by activating the ROCK signaling,
31	which is dependent on the R-O-S induced by the PCBs. So that
32	would be possibly one article to consider under breast.
33	DR. HARRISON: Liz, this is Bob Harrison.
34	DR. WARD: Yes.

1	DR. HARRISON: I don't believe that we have, or at least I have,
2	sufficient information on to vote to add additional cancers
3	beyond those that are listed in the current proposal under option
4	two without considering more scientific and epidemiological and
5	toxicological data. And in the preface to the to our current draft
6	we're using three criteria. We're using the IARC monographs for
7	limited or sufficient evidence, respiratory and digestive tract
8	cancers where inflammatory conditions have been documented,
9	and then answers for which epi studies have found evidence of
10	increased risk in World Trade Center responder and survivor
11	populations as referenced in Table 4. And if we were going to add
12	other cancers outside of those three criterias (sic) which I'm, you
13	know, perfectly comfortable doing then we would, I think, need
14	to more carefully review the scientific evidence presented for full
15	consideration by the Committee, and then a vote. But I don't
16	believe that I could vote without having done that first.
17	So process-wise, I guess I'm suggesting that if this Committee
18	needs to reconvene at a future date to review that evidence, then I
19	would, you know, certainly be I think that would be the route to
20	go.
21	DR. WARD: Yeah, and as I understand it Paul can comment as
22	well basically we don't really have the option of saying we need
23	to reconvene at a later date. I think we need to, you know, have
24	both people have if anyone is making a motion to add any of
25	these three cancers, we need to hear the rationale for that
26	addition, and then we need to have discussion as you know, by
27	the Committee, and then we need to take a vote. And as to
28	whether in the future we'll look at those cancer sites again, that's
29	really up to Dr. Howard.
30	<b>UNIDENTIFIED:</b> One point of clarification also is I just want to
31	DR. MIDDENDORF: Who's speaking?
32	UNIDENTIFIED: is on the future list under VA to be added under
33	Agent Orange as well.
34	DR. MIDDENDORF: Was that Catherine Hughes?

1	MS. HUGHES: Yes, it was.
2	DR. MIDDENDORF: Thank you.
3	<b>MS. DABAS:</b> Hi, this is Valerie. I have a question. On page 41, the
4	Table 2, select agent that IARC has classified as carcinogenic to
5	humans and related cancer sites with sufficient or limited evidence,
6	2378 tetrochlorobenzoparadoxin (ph), says all cancers combined.
7	And I'm wondering why we haven't used that as our as the
8	rationale to at least get pancreas, breast and brain in.
9	DR. WARD: Well, it was that was that evidence was discussed
10	under the under option one. It was specifically cited under
11	option one. I don't I don't see it as a direct rationale for getting
12	pancreas, brain and breast in.
13	<b>MS. DABAS:</b> Right, but if we're saying that we would include using
14	the rationale that we'd use for digestive system, for identifying the
15	digestive system, adding that particular carcinogen agent to that
16	case, to say that we believe that because the digestive system has
17	been identified as one of the systems that we think has been
18	compromised, to include the other organs, that we also believe
19	that that plus this would get us there.
20	<b>DR. WARD:</b> I'm not sure I follow the logic. I mean I think you
21	know, we already discussed including pancreatic as part of the
22	digestive system and the rationale for why didn't think it should
23	be included because it wasn't an organ that had direct contact with
24	substances that were passing through the digestive tract or the
25	upper respiratory tract.
25 26	So Paul, can you help me remember exactly where we are in terms
20 27	of motions? We did have a motion and a second with regard to
28	<b>DR. MIDDENDORF:</b> We have a motion on the table up on the
28 29	screen. The motion is that the Committee recommends adding
30	pancreatic cancer to the list of digestive tract cancers.
31	DR. WARD: Okay.
32	<b>DR. MIDDENDORF:</b> Below that I just put the digestive tract cancers
33	that were in the motion which passed.
34	<b>DR. WARD:</b> So maybe, Valerie I think maybe we can't really we

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should probably stick to discussing the pancreatic cancer right now
and then address the other cancers separately when there's a
motion to do so. So is there any further discussion on the
pancreatic cancer?
(No response)
<b>DR. WARD:</b> I would think it's time for a vote on the pancreatic
cancer.
DR. MIDDENDORF: So motion four, which was put forward by
Catherine Hughes and was if I remember correctly, an
amendment by whom?
UNIDENTIFIED: Valerie.
DR. MIDDENDORF: Or was it just seconded?
DR. WARD: Seconded, I think.
DR. MIDDENDORF: Seconded by Valerie, is that correct?
MS. DABAS: Yes.
DR. MIDDENDORF: Okay. So the motion on the table is
'Committee recommends adding pancreatic cancer to the list of
digestive tract cancers.'
And going to the vote, we'll do it again alphabetically. Tom
Aldrich?
DR. ALDRICH: No.
DR. MIDDENDORF: Steve Cassidy?
MR. CASSIDY: Yes.
DR. MIDDENDORF: Valerie Dabas?
MS. DABAS: Yes.
DR. MIDDENDORF: John Dement?
DR. DEMENT: No.
DR. MIDDENDORF: Kimberly Flynn?
MS. FLYNN: Yes.
DR. MIDDENDORF: Bob Harrison?
DR. HARRISON: No.
DR. MIDDENDORF: Catherine Hughes?
MS. HUGHES: Yes.
DR. MIDDENDORF: Steve Markowitz is not here. Guille?

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	MS. MEJIA: Yes.
	DR. MIDDENDORF: Carol North is not here. Julia Quint?
	DR. QUINT: No.
	DR. MIDDENDORF: Bill Rom?
	DR. ROM: No.
	DR. MIDDENDORF: Susan Sidel?
	MS. SIDEL: Yes.
	DR. MIDDENDORF: Glenn Talaska?
	DR. TALASKA: No.
	DR. MIDDENDORF: Leo Trasande?
	DR. TRASANDE: No.
	DR. MIDDENDORF: Liz Ward? No, excuse me, Virginia Weaver?
	DR. WEAVER: No.
	DR. MIDDENDORF: Liz Ward?
	DR. WARD: No.
	<b>DR. MIDDENDORF:</b> Okay, the count I get is nine no and six yes.
	The motion does not carry.
	DR. WARD: Okay, so the floor is open for additional motions. Or
	topics for discussion, if not motions.
	MS. SIDEL: I'd like to make a motion to add brain cancer. I'm
	sorry, Susan Sidel.
	DR. WARD: Is there a second?
	MS. HUGHES: Catherine Hughes, yes.
	DR. WARD: Okay. So can we have some discussion on the
	rationale for adding brain cancer?
	UNIDENTIFIED: Isn't the brain the largest part of the nervous
	system, and the nervous system interfaces with the circulatory
	system and the lymphatic system, and the pulmonary as well.
	DR. MIDDENDORF: I just want to make sure who excuse me for
	just a second, I who made the motion? Was that Susan Sidel?
	MS. SIDEL: Yes, and Catherine seconded.
	DR. MIDDENDORF: Catherine seconded, thank you. And is this th
	correct motion, 'The Committee recommends adding brain cancer
	to the list of covered conditions'?

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	MS. SIDEL: Correct.
	DR. MIDDENDORF: Okay.
	MS. SIDEL: Thank you.
	<b>DR. WARD:</b> Is there anyone else who wants to speak to the point
	of the rationale for adding brain cancer?
	<b>DR. HARRISON:</b> This is Bob Harrison. I would just like to point out
	I believe that there's some evidence that exposure to solvents, in
	some studies, increases the risk of brain cancers. I don't know
	whether solvents, or solvent exposure, was among the World Trade
	Center. I know that we have identified benzene.
	UNIDENTIFIED: Yeah, I just understand that some of the main floo
	of the World Trade Centers that was full of solvents oh, in the
	sub-basement, yeah.
	MS. SIDEL: Even in another I'm sorry, Susan Sidel. May I speak?
	DR. WARD: Yes.
	MS. SIDEL: Catherine, maybe you can help me out with this, but
	didn't we talk about there were several doctors' offices in the
	towers that had X-ray machines? So that would be radiation.
	MS. HUGHES: Okay, what I understand is there's a large cooling
	system which had a lot of the solvents in it, it was in the basement
	and the seventh and eighth floor.
	UNIDENTIFIED: That was (indiscernible).
	DR. WEAVER: Virginia Weaver. So it would be great to be able to
	flesh some of this out in more detail. There's data suggesting that
	formaldehyde increases brain cancer, although apparently it's
	somewhat population-dependent. We do know that formaldehyde
	is present in combustion products. There is an increased risk of
	brain cancer in firefighters, again suggesting that it may be
	reflecting combustion exposures. However, it's kind of hard to do
	this on the fly without being able to think through the lines of
	evidence and the fact that brain cancer did not fall out using our a
	priori criteria.
	DR. DEMENT: This is John Dement. May I speak?
	DR. WARD: Yes, John.

1	DR. DEMENT: I think this is one that's actually harder to come to
2	consensus about than the pancreatic cancer because I think, as
3	Virginia's pointed out, there are some exposures and actually a
4	number of case control studies, too, that point to firefighting and
5	solvents as brain cancer risks. But unfortunately, I don't think it I
6	don't think the level of evidence has risen to a level that would be
7	sufficient for IARC to classify it as such. There probably hasn't
8	been a review done in a while either, but nonetheless, that sort of
9	dates those data.
10	Also didn't vinyl chloride have some question about brain cancer, a
11	relationship, at one time as well?
12	DR. WEAVER: Virginia yes, I think it did.
13	MS. HUGHES: And also there was lots of plastics. Think of all the
14	computer terminals that were you know, imbedded in plastic
15	boxes, PVC
16	UNIDENTIFIED: Carpet.
17	<b>MS. HUGHES:</b> and everything like that, carpeting.
18	<b>DR. WARD:</b> And so the one thing I can speak to is that in the most
19	recent IARC review brain cancer was not identified as one of the
20	sites. I think there were some early findings, but then the later,
21	larger studies did not see excess risk for brain cancer.
22	MS. DABAS: Hi, this is Valerie. I just wanted to know Dr. Rom
23	spoke earlier saying that he was doing some work on brain if he
24	had any thoughts on this. I might regret it, but
25	DR. ROM: This is Bill Rom. Beyond what Bob Harrison said with
26	the solvent exposure, I really have nothing to add. And I think this
27	is a type of cancer that's under investigation, but there's no real
28	hard evidence for occupational/environmental exposures yet.
29	<b>DR. WARD:</b> I think unfortunately there's been a lot of studies that,
30	you know, were motivated by brain cancer clusters in various
31	industries. And frequently it turns out that there really isn't either
32	an excess risk or there isn't anything in particular that the brain
33	cancers are associated with. So it's been one of the very difficult
34	cancers in occupational health because it's you know, there's

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been actually a lot of studies and they haven't really led to any
clear conclusions about the causes whether there's an excess
what the causes might be.
So I I mean if no one has any further comment, we can just c
this motion to a vote.
<b>UNIDENTIFIED:</b> I just have a quick question here.
DR. MIDDENDORF: Who is that?
MS. HUGHES: This is Hughes Catherine Hughes. I understan
someone has if we vote to exclude a particular site, if a
lymphoma is still is lymphoma still covered in a non-covered
For example, someone has a lymphoma cancer in the brain?
<b>DR. WARD:</b> To the best of my knowledge, yes. I mean lympho
are classified as a group, regardless of what site they arise in, s
and I will I didn't include the appendix of sites and histologie
but I will. And I assume that the program you know, if the
program chooses to accept our recommendations, obviously th
will look in detail and make sure that all the relevant sites and
codes are included, but I made my best attempt using the SEER
database to specify that, and I think basically when you knov
certain cancers like lymphomas, regardless of what site in the b
they arise in, they're classified as a lymphoma because most
cancers do arise in lymphatic tissue all over the body.
So Paul, shall we go ahead and have a vote?
DR. MIDDENDORF: Okay. So the motion on the table is 'The
Committee recommends adding brain cancer to the list of cove
conditions.'
With the vote here Tom Aldrich?
DR. ALDRICH: No.
DR. MIDDENDORF: Steve Cassidy?
MR. CASSIDY: Yes.
DR. MIDDENDORF: Valerie Dabas?
MS. DABAS: Yes.
DR. MIDDENDORF: John Dement?

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	DR. MIDDENDORF: Kimberly Flynn?
	MS. FLYNN: Yes.
	DR. MIDDENDORF: Bob Harrison?
	DR. HARRISON: Yes.
	DR. MIDDENDORF: Catherine Hughes?
	MS. HUGHES: Yes.
	DR. MIDDENDORF: Steve Markowitz is not here. Guille?
	MS. MEJIA: Yes.
	DR. MIDDENDORF: Carol North is not here. Julia Quint?
	DR. QUINT: No.
	DR. MIDDENDORF: Bill Rom?
	DR. ROM: No.
	DR. MIDDENDORF: Susan Sidel?
	MS. SIDEL: Yes.
	DR. MIDDENDORF: Glenn Talaska?
	DR. TALASKA: No.
	DR. MIDDENDORF: Leo Trasande?
	DR. TRASANDE: No.
	DR. MIDDENDORF: Virginia Weaver?
	DR. WEAVER: No.
	DR. MIDDENDORF: And Liz Ward?
	DR. WARD: No.
	DR. MIDDENDORF: Eight nos, seven yes. Eight no, seven yes.
	DR. WARD: Thank you, Paul. So additional motions?
	MS. FLYNN: The Committee recommends this is Kimberly. The
	Committee recommends the addition of breast cancer to the list o
	covered conditions.
	MS. SIDEL: I second it. I'm Susan Sidel. I second her mo
	Kimberly's motion.
	DR. WARD: Thank you. So shall we have a dis have people who
	want to speak to the rationale for adding breast cancer?
	DR. MIDDENDORF: Just one quick thing, was that Kimberly who
	made the motion?
	MS. FLYNN: Yes, it was.

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1	DR. MIDDENDORF: Okay. And Susan seconded?
2	MS. SIDEL: I did seconded it.
3	<b>DR. MIDDENDORF:</b> Okay. And is this the correct motion, 'The
4	Committee recommends adding breast cancer to the list of covered
5	conditions'?
6	MS. FLYNN: Yes.
7	DR. WARD: So I know people have several people have spoken
8	on the rationale for breast cancer before, but it probably would be
9	useful at this point, even if if you've said something before, say it
10	again, because we really need to lay out the rationale as strongly
11	and clearly as possible so that the Committee can consider whether
12	they think that there's sufficient rationale for adding it.
13	MS. HUGHES: Hughes, one, there were many there was
14	endocrine disrupters there; two, stress can attribute to increased
15	cancer; three, Agent Orange breast cancer's on the fast track for
16	that.
17	DR. WARD: Anyone else?
18	MS. HUGHES: I'm sorry, and four, there have been limited studies
19	of women in occupational health.
20	MS. DABAS: Hi, this is Valerie. I think one of the things that I read
21	in Environmental Health Perspective was the estrogen effect and
22	BPAs, and that exposure to BPAs can cause the body to produce
23	estrogen and then lead to breast cancer. So I think when we
24	looked at plastics that were at the World Trade Center, some of the
25	things that they talked about were cleaning products, plastic from
26	computers, linoleum from the floors, the vinyls, synthetic
27	fragrances and fabrics such as carpet that were burning. So I think
28	there is some indication that, you know that this could have
29	caused increased estrogen in women that's causing the breast
30	cancer.
31	DR. WARD: So does anyone who's not in favor of adding breast
32	cancer want to speak to their rationale?
33	DR. QUINT: Well, before you do that this is Julia.
34	DR. WARD: Okay.

1	<b>DR. QUINT:</b> I haven't decided one way or the other yet, but I just
2	want to say that there are lots there are data, studies, both in
3	vivo and epidem animal studies and human studies,
4	epidemiological studies indicating an association between PCBs and
5	breast cancer. And also there is a new and they're not
6	consistent, I should say that, so that gives me some pause. But
7	there is a new fairly new study showing increase in breast cancer
8	metastasis with PCBs and a specific mechanism that's been
9	proposed, and that was shown both in vivo and in cell cultures. So
10	I think we have a specific WTC exposure of PCBs linked to breast
11	cancer and, as I said, the data are not consistent in terms of the
12	association. But the new study showing an increase in breast
13	cancer metastasis, that is just one study, but it's pretty solid,
14	seemingly, evidence. I think it adds some weight.
15	<b>DR. WARD:</b> Glenn, you were I think you were the person who did
16	most of the work on exposure levels to PCBs. Do you want to
17	comment?
18	<b>DR. TALASKA:</b> Well, you know, the data there weren't data that
19	indicated that those at least biological. But again, subject to the
20	limitations of all the data that were collected, a relatively small
21	number of people that were collected after the fact, but fairly
22	persistent compounds, PCBs and so they should have been
23	increased in the people that were measured by the CDC. And I'm
24	just checking the wording that we did no, and I don't believe that
25	they were.
26	The dioxin is a similar thing. We had the window films that showed
27	that there were relatively high levels on the in the windows, but
28	there weren't elevated levels of any of the dioxins in the people
29	that were studied by again, by the CDC.
30	Then there were increases let's see, on one congener was
31	increased in exposed firefighters. Only one of the congeners in the
32	mean values were 27.8 parts per trillion for all site firefighters; 30
33	parts per trillion for those present at the collapse; 26.2 for those
34	arriving day one or day two, and 30.6 for those in special

1	operations. The firefighters not at the site had a lower average for
2	that one congener, so that was elevated. In retrospect, the
3	average was for the Agent Orange, the average, measured ten
4	years after their exposure, was in the ranch hand study was 49
5	parts per trillion and ranged to 313. So you know, they had they
6	had ten years for the stuff to go away. It has about a seven-year
7	half-life, if I remember correctly, and they were and their levels
8	were several times higher than what were seen in any of the
9	people that were measured in the early as far as we know, since
10	we didn't get the range in the at the World Trade Center. And
11	that was only one congener, and it wasn't for TCDD itself, which
12	that's the biggest one in terms of exposure for dioxin and/or for
13	PCBs.
14	I'm re-looking at what we wrote. They certainly were at the site,
15	but the lev the air levels were said to reduce be reduced fairly
16	quickly. And again that's to be expected because PCBs are have a
17	really low vapor pressure. But you know, there still could be
18	dermal absorption from them, so that's the other side of the coin.
19	Again, Edelman did not see a difference between any of the mean
20	values of the firefighters or people or the firefighters who never
21	entered the Ground Zero site.
22	Dahlgren did see levels in I think he studied seven first
23	responders and that three were above the 75th percentile, two
24	above the 90th and one above the 95th percentile, which would
25	probably be unusual. But again, they that report was limited
26	because they didn't say how these people the seven people were
27	selected, although they did see some elevation in PCBs, too.
28	So the data are mixed there is no other way to put it in terms
29	of the exposure for PCBs and dioxin. It seems like there was an
30	enormous amount of dioxin in the air to begin with, but at least it
31	seems from the data that either it didn't get into people readily,
32	which is a very good thing and with the PCBs there's some
33	indication of exposure to some people to elevated levels of PCBs,
34	but those data are limited.

1	<b>DR. WARD:</b> Good. And this is Liz. I think, you know, from my
2	point of view, you know, one of the things that we didn't look at
3	and we there probably isn't enough data to look at, but probably
4	should be on the agenda for future research, is kind of the effects
5	of the stress related to the World Trade Center exposures and how
6	that might have affected the endocrine system, and that might
7	have some direct bearing on breast cancer. But at this point, the
8	studies just aren't I mean the studies haven't been done to show
9	that.
10	I guess the other exposure that has been related to breast cancer is
11	shift work. But again, you know, IARC did an evaluation of that and
12	I think it based on limited evidence in humans, but then
13	subsequent studies have not been confirmed at the early
14	association. So and I do agree with the comments and I just
15	don't know how to deal with it that, you know, there have been
16	very few because so few women were involved in the industrial
17	occupations that form a large part of the base of our knowledge
18	about occupational carcinogens, we really don't have good
19	information about the effect of many carcinogens on causing
20	cancer of the female breast. Even the male breast is such a rare
21	cancer that it wouldn't be picked up in occupational studies.
22	<b>MS. FLYNN:</b> This is Kimberly, excuse me, but I think this is actually
23	a perfect instance where we really do need to lean on the
24	precautionary principle. We are not going to have this information,
25	number one. Number two, we are not just talking about shift work.
26	We're talking about shift work on steroids. I mean we're talking
27	about extreme shift work that was being done by female
28	responders who were simultaneously being exposed to, you know,
29	plastics fumes, who were simultaneously being exposed to 2378
30	PCBD, who were simultaneously being exposed to probably a range
31	of xenoestrogens in World Trade Center dust and smoke. I guess
32	I'm asking whether or not there's some possibility of pulling
33	together a rationale here when we have a population that is you
34	know, whose health impacts are simply not ever going to be
<b>e</b> .	

1	addressed by occupational studies, you know, in the next 15 to 20
2	years. And I guess I want to throw in that Edelman you know, I
3	don't want to repeat my comments, but Edelman is extremely
4	limited. And Glenn, you actually raised at least three important
5	criticisms with respect to the inadequacy of the Edelman of the
6	information provided in Edelman. I'd also like to say that we're
7	talking about, you know, exposures that are bio are cumulative
8	and we're talking about one stint on the Pile, one stint in
9	downtown where, you know, had Edelman come back and retested,
10	he might have gotten much higher blood lipid levels.
11	DR. TALASKA: This is Glenn. My major concern with Edelman, at
12	least to the PAHs, was the fact that those things have a fairly short
13	half-life, and yet he didn't sample until 21 days after the peak.
14	With dioxin compounds, as I was trying to point out in the by
15	bringing up the ranch hand study, you know, when they sampled
16	those people ten years after their exposure, they were still half-
17	again higher than the highest ones that were reported at the at
18	Ground Zero. And so that was a ten-year lag, where it would have
19	shown up relatively quickly after the exposure and it should have
20	been maintained for 21 days if you can see it ten years later.
21	That's my concern with, you know, making the inclusion.
22	You know, philosophically and personally, it's something that
23	yeah, you'd like to see everyone this particular disease covered
24	because there's a possibility that perhaps there was some
25	exposures in some individuals, and that a few individuals whose
26	disease may be related to those exposures. You know, there's a
27	possibility that that would be happening, based upon the data,
28	because we don't have the ranges. We don't know what what
29	the peak that Edelman saw for most of the markers that he
30	measured. But it's it would at least from the types of
31	exposures relative to what was seen in other places, it seems like
32	that would seem to me the probability would be that there
33	would be very few of those.
34	So on you know, at one hand I would support the notion, but the

1	science just isn't there to say that this is a condition where
2	everybody would or you would expect that people would have
3	this in an elevated probability. But I'm sure on an individual basis
4	there probably is somebody I can't say I'm sure. There may be
5	on an individual basis somebody who had a high level that just
6	wasn't documented because they weren't with some of those
7	directly with some of the transformers or in the smoke from a
8	particular transformer fire that had some in it. You know, that's
9	where the chance is, as far as I can see.
10	Does that make sense?
11	<b>DR. WARD:</b> That makes sense to me this is Liz. But even so,
12	though, there's not a strong established association between PCBs
13	and breast cancer.
14	DR. TALASKA: Correct.
15	<b>DR. WARD:</b> So it's not I mean so it's not like we're saying there is
16	a strong epidemiologic association and if someone happened to be
17	in the plume when you know, near a transformer fire, then that
18	would have been a reasonable assumption that they would have
19	gotten a high exposure that would result in breast cancer. So the
20	problem is we don't have strong evidence for an association
21	between PCBs or TCDD and breast cancer, and we don't have
22	evidence we don't have much evidence that there was elevated
23	exposure in the population as a whole.
24	MS. FLYNN: This is Kimberly. I think, again I mean, and I won't
25	rehearse this, but the idea that we don't have that kind of exposure
26	data doesn't mean that those exposures didn't happen, number
27	one. And number two, I guess I'm wondering if there isn't any way
28	for us to craft a similar rationale to the rationale for coverage of
29	pediatric cancers, to cover female breast cancer, because we have
30	a small group of women in the monitoring program and we have a
31	very small group of women being seen at the World Trade Center
32	Environmental Health Center. We don't really have the possibility
33	of getting, you know, large enough numbers to be able to see an
34	up-tick.

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	MS. SIDEL: Hi, this is Susan. Could I speak, please?
	DR. WARD: Sure.
	MS. SIDEL: You know, I have such a tough time with basing
	anything on exposure data because it is so faulty, and it's almost
	though the people that really needed the exposure data to be
	accurate are the ones that are sort of being penalized because it
	isn't, and so that's what sort of makes it really tough for me on a moral basis.
	The other thing is that women have just not had any kind of speci
	consideration whatsoever in the program well, maybe a little b
	over at Bellevue, but I know that in the responder programs there
	no special studies that deal with women's health and I know that
	lot of women have been impacted in very specific ways. It's just a
	fault of the program because it's you know, you're not seeing
	large numbers of women so there's a bias generally. And it's
	difficult because, you know, we're recognizing that there's a
	problem, but we're not in a position to do anything about it
	because that would be prol you know, that's not the policy. So
	just sort of feel as though there has to be some other way that w
	can get this in because I just don't think that you'll ever get the
	kind of research that you need because no one is going to no o
	is going to really do that research based on the numbers of peopl
	that we have in the program, the number of women. It seems
	you know, ten years out it doesn't seem like anybody's really
	interested in studying women's health.
	MR. CASSIDY: Steve Cassidy, can I say something?
	DR. WARD: Sure, go ahead, Steve.
	MR. CASSIDY: I mean I know that the fire department is doing ar
	EMS study. I know there are a lot of women included in it. It's
	frustrating that the results are not available at this time. It's just
	frustrating that we don't have more data, but I know there is an
	extensive study being done of EMS and they have a significant
	population of women involved, to my knowledge.
	<b>DR. WARD:</b> Thanks. And I also think it's it's not exactly

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1	analogous to childhood cancer because the expected incidence of
2	breast cancer in the population is much greater than the expected
3	incidence of childhood cancer. So I think that even if you have
4	relatively small numbers of women in studies, you have more
5	opportunity to actually see an increased risk, if there is one.
6	MS. HUGHES: Catherine here. What if the age onset happens at an
7	earlier age than normal?
8	<b>DR. WARD:</b> Well, in the write-up of the rare cancer sites we did I
9	mean and this is just a proposal and, you know, it's kind of
10	something that the program would have to work on
11	implementation of, but the con at least conceptually the idea was
12	one would look at cancer sites by at least decade of age. So for
13	example, if someone got breast cancer and they were 25 years old,
14	that would likely qualify as a rare cancer. So if because it is, you
15	know, reasonable that some cancers you know, what you would
16	see is a shift towards earlier age at diagnosis if there was an
17	increased risk.
18	DR. QUINT: This is Julia. One of the issues, as I understand it, with
19	PCBs and this is based on just one study is metas you know,
20	the metastasis issue, so that not so much causation with PCB but
21	this new this study I mentioned, and I can send you the reference
22	show that PCBs actually, you know, cause the breast cancer to
23	metastasize to other sites, which would end up, you know, going
24	from treatable possibly to fatal cancer in women if this is really
25	true I mean if this bears out down the line. I know the specific
26	mechanism you know, reactive oxygen species generated by the
27	PCBs that activated a specific site mechanism that caused it. So I
28	guess my question is whether or not, in making recommendations
29	to the Director, that we should consider, you know, a cancer that
30	you know, an exposure that could cause a cancer to metastasize,
31	whether or not that would be considered an exacerbation of an
32	existing condition or something like that, it if turns out the
33	exposure data side, I know there are issues with that and I'm not
34	sure how many women were actually included in Edelman's study,

1	but so the question is whether or not, if it turns out that PCBs
2	could, you know, influence metastasis of breast cancer, whether or
3	not that would qualify in terms of the what we're asked to
4	recommend here, you know, 'cause I'm not talking about causation
5	'cause those data are inconsistent. But if it turns I mean would
6	that be a legitimate area to comment on to make a
7	recommendation on, or to base a recommendation on?
8	DR. WARD: Well, I can I think I can give you an off-the-cuff
9	opinion. I mean I think if there was, you know, a body of evidence
10	that had been you know, where there was you know, it wasn't
11	just this was the first study and it didn't that if there was a
12	consistent body of evidence that showed an association between
13	PCB levels and likelihood of metastasis, then I don't think I don't
14	necessarily know that it would how it how the final decision
15	would be made at this point in time given the criteria that we
16	that started with. I can say, as someone in the cancer field, this is
17	not something that you know, the effect of environmental
18	exposures on likelihood of metastasis or likelihood you know, or
19	on or even on survival after diagnosis is not an area that's been
20	really well-researched, so it's not something where I think one
21	would readily find a body of literature or a lot of precedents about
22	how that type of data was handled in, you know, regulatory or
23	advisory bodies. But but certainly you know, I think if there
24	was a solid body of evidence showing that a particular exposure
25	that was present at the World Trade Center, you know, was
26	associated with an increased likelihood of metastasis, then maybe
27	one could one could even think about including, you know, more
28	advanced cases of particular diseases in the category as World
29	Trade Center-related conditions.
30	So are there any further comments before we bring this motion to
31	a vote?
32	UNIDENTIFIED: Just wanted to answer the question, I don't believe
33	there were any women studied by Edelman. I could be wrong
34	UNIDENTIFIED: Yes.

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<b>UNIDENTIFIED:</b> it wasn't indicated.
<b>UNIDENTIFIED:</b> I think you're right. I'm looking at it right now.
UNIDENTIFIED: Yeah, I am, too, and they don't mention anything
at all about gender.
UNIDENTIFIED: Gender, yeah.
UNIDENTIFIED: So, just to clarify.
DR. WARD: Okay. So any further comments or questions before
we call for a vote?
(No response)
DR. WARD: Okay. Paul?
DR. MIDDENDORF: Okay. The motion before the Committee is
'The Committee recommends adding breast cancer to the list of
covered conditions.'
Okay, Tom Aldrich?
DR. ALDRICH: Yes.
DR. MIDDENDORF: Steve Cassidy?
MR. CASSIDY: Yes.
DR. MIDDENDORF: Valerie Dabas?
MS. DABAS: Yes.
DR. MIDDENDORF: John Dement?
DR. DEMENT: No.
DR. MIDDENDORF: Kimberly Flynn?
MS. FLYNN: Yes.
DR. MIDDENDORF: Bob Harrison?
DR. HARRISON: No.
DR. MIDDENDORF: Catherine Hughes?
MS. HUGHES: Yes.
DR. MIDDENDORF: Guille?
MS. MEJIA: Yes.
DR. MIDDENDORF: Julia Quint?
DR. QUINT: Yes.
DR. MIDDENDORF: Bill Rom?
DR. ROM: No.
DR. MIDDENDORF: Susan Sidel?

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	MS. SIDEL: Yes.
	DR. MIDDENDORF: Glenn Talaska?
	DR. TALASKA: No.
	DR. MIDDENDORF: Leo Trasande?
	DR. TRASANDE: Yes.
	DR. MIDDENDORF: Virginia Weaver?
	DR. WEAVER: No.
	DR. MIDDENDORF: Liz Ward?
	DR. WARD: No.
	DR. MIDDENDORF: Okay. Okay, I have nine yes and six no. The
	motion would carry.
	DR. WARD: Okay, so now what we
	DR. MIDDENDORF: Liz, before moving on, I need to clarify one
	thing. A question for Bob Harrison, your vote on motion number
	five, 'The Committee recommends adding brain cancer to the lis
	covered conditions' could you restate your vote? I mean it
	doesn't make a difference in terms of the outcome, but it does
	make a difference in terms of being sure that we're accurate.
	DR. HARRISON: Yes, that was yes.
	DR. MIDDENDORF: It was yes. Okay, thank you. Back to you, Li
	DR. WARD: Okay. So as I understand it, what we need to do not
	is really draft the text providing the rationale for recommending
	that breast cancer be listed as a World Trade Center-related
	condition. And maybe some of the Committee members that vo
	yes could try to give Paul some language that he could incorpora
	into the document, hopefully modeled along you know, I mear
	similar to the kind of information that we provided for the sites
	that were initially included.
	(Pause)
	DR. WARD: So I guess one rationale was that several of the w
	I guess one big part of the rationale is that the li you know, tha
	much less is known about occupational/environmental causes of
	breast cancer than other cancers because very few studies have

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	occupations. That's one point. I don't know if it would be the first
	point.
	Paul, are you trying to get this?
	<b>DR. MIDDENDORF:</b> Yeah, I'm trying to find out where you are at
	the moment.
	<b>DR. WARD:</b> Well, we're nowhere because we're adding a new
	cancer site I mean
	<b>DR. MIDDENDORF:</b> So do you want this at the bottom of the list?
	DR. WARD: Right.
	DR. MIDDENDORF: Okay, for option two.
	DR. WARD: Well, yeah. I mean I guess we want to put it before
	DR. MIDDENDORF: Do you want to draft that now or do you want
	to work on the other two possible motions?
	DR. WARD: What other two possible motions?
	DR. MIDDENDORF: One on
	DR. WARD: I mean, as I recall, there were I mean, at least with
	regard to cancer sites, there were three possible motions, two of
	which we voted no and one of which we voted yes, which is breast
	So
	DR. MIDDENDORF: I guess I was thinking of the rare cancer and
	childhood cancer.
	DR. WARD: I was assuming that that was included in the
	DR. MIDDENDORF: Included in the larger list?
	DR. WARD: I thought so. Was everyone else
	DR. MIDDENDORF: Okay, rare cancers is there, childhood cancers
	is there, yes. They are there. Okay.
	MS. DABAS: Yes, but this is Valerie I don't think we I think
	there was some questions about the definition of rare cancers tha
	was brought up on email.
	DR. WARD: There were well, I don't recall. I mean does anyboo
	have a problem with the way it it's not specifically defined here.
	If you look at in the cover letter, and then if you I mean in the
	cover letter it's not a specific cutoff isn't given. But if you go
	back and look at the supporting document I'm trying to find it, I

1	think on page 27. So basically what it what it's saying on page 27
2	is that it's acknowledging that there's lots of different ways that
3	cancers are classified. Most commonly in epidemiologic studies
4	they're classified by organ site of origin, but they're all cancers
5	that are diagnosed are have essentially two major classifications.
6	One is with regard to the organ site and the other is with regard to
7	the histology. So for exam and the two examples we cited here
8	are so for vinyl chloride (indiscernible) exposure, the cancer site
9	that was most strongly associated with it was angiosarcoma of the
10	liver, which is a specific histological site, distinct from the more
11	common type of liver cancers, although ultimately it turned out
12	that vinyl chloride was associated with the common type as well,
13	but similarly for bis(chloromethyl) ether, it was really a cluster of
14	small cell carcinoma or oat cell carcinoma that was associated with
15	that specific chemical. So what we're saying here is that we would
16	really want the classification of rarity to be based either on site or
17	site plus histology to allow for that. We're also saying that we
18	would want the classification of rare cancers to be based you
19	know, based for based on a patient's age, gender. For example,
20	breast cancer in men would be rare; it wouldn't be rare in most age
21	groups in women. So I think the idea here was to give the program
22	general guidance, but not to specify I mean there were some
23	email conversations that, you know, 15 per you know, you
24	wouldn't want to classify 25 percent of cancers that happen in the
25	United States as rare. But I think we were trying to give the
26	program some general guidance, and then they would
27	operationalize the guidance. But the idea would be to be really
28	inclusive of various options by which a cancer could be called rare.
29	MS. DABAS: Okay, thank you. Sorry, I didn't see that part
30	portion of the that included the age. Sorry.
31	DR. WARD: So but so before we go into the rationale for
32	adding breast, are there any other motions that people want to
33	bring to the floor before we work on the language for the breast
34	rationale, and then we work on we ask for any factual errors that

1	were found in the documents, any editorial suggestions?
2	MS. DABAS: Hi, it's Valerie again, I'm sorry. I just I wanted to
3	get a vote on the prostate cancer and the rationale behind why we
4	chose to exclude the prostate cancer. The three rationales that we
5	used was IARC was which I believe prostate is on there in the
6	second section of that. Also we used epidemiological studies and it
7	appeared in the fire department studies, and we all are aware that
8	it will appear in the other two studies that are coming shortly. And
9	then when it goes to biological plausibility as far as inflammation
10	and so forth, I think that you know, it fit two at least two of
11	the three criteria that we put fit at least in two categories and
12	for others all it needed to do was fit in one, so I think that I'd like
13	to see a vote on the prostate cancer as well as some discussion on
14	the rationalization for removing it.
15	DR. MIDDENDORF: I think the vote has already taken place.
16	<b>DR. ALDRICH:</b> This is Tom Aldrich. It's not right that the fire
17	department say is positive for prostate. Actually it was did not
18	show increased prostate when compared to the high-exposed
19	firefighters.
20	DR. WARD: Yeah, and I picked it up initially because I was really
21	using I didn't want to I wanted to put things on the table and
22	not screen them out so, you know, there was one positive signal for
23	prostate cancer which was the comparison of exposed to the
24	general population, but then when you went deeper the evidence
25	really was not evidence was really not in favor of the prostate
26	cancer association. So I think, you know, that the that what Paul
27	is saying is that the motion to exclude prostate cancer has already
28	carried and there was discussion around that motion, so that this
29	motion is not really in order at this point in time.
30	MS. DABAS: I'm not sure that's the case. I believe that the motion
31	that was put was to include everything else but prostate, but it
32	wasn't to specifically exclude prostate. And I think I would like to
33	see a vote on the record as to the exclusion of prostate as well as
34	some justification on the record for that.

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<b>DR. WARD:</b> Okay, Paul, what is your recommendation?
DR. MIDDENDORF: Well, we've to revisit prostate we'd need a
motion to reconsider that vote.
MS. DABAS: It's Valerie, and I would like to put a motion to
reconsider the prostate inclusion of prostate.
MS. HUGHES: Second Catherine Hughes.
DR. WARD: So I think, though, what Paul is saying is that and I'r
not saying we should do this, but I think Paul was saying to
reconsider the prostate we would have to reconsider the entire
vote on including the entire list and the modification of eye. Is that
what you're saying, Paul?
<b>DR. MIDDENDORF:</b> I think we can just reconsider basically I was
an amendment to that that removed prostate, so I think we can
go ahead and hold on just a second.
Motion would be to reconsider the entire previous vote because
prostate was specifically excluded.

16	prostate was specifically excluded.
17	MS. DABAS: Paul, what I'm asking is that we vote to consider
18	prostate; not to reconsider the motion, but to to vote for the
19	inclusion of prostate cancer.
20	<b>MS. HUGHES:</b> Catherine, second it, just prostate only, though.

20MS. HUGHES: Catherine, second it, just prostate only, though.21DR. WARD: So Paul, are you comfortable with just taking that vote22for the record?

**DR. MIDDENDORF:** Yeah, I -- I think we can do that. So let's -- restate that motion. What is the motion?

**MS. DABAS:** The motion is to approve prostate cancer as part of26this recommendation.

27DR. MIDDENDORF: Being the -- 'The Committee recommends28adding prostate cancer to the list of covered conditions'?29MS. DABAS: Yes.

30DR. WARD: And we have a second?31MR. CASSIDY: Steve Cassidy, second.

**DR. WARD:** So is there any further discussion on the motion? 33 **DR. DEMENT:** Yeah, this is John Dement. Can I speak, please?

33 DR. DEMENT: Yeah, this is John Dement. Can I speak, please?
34 DR. WARD: Yes.

1	DR. DEMENT: You know, I think we do have some inconsistency in
2	the approach with regard to prostate cancer, and I think the prior
3	vote tied it in with the all approving the entire list, and also we
4	had the eye cancers in there. And I personally was torn with that
5	decision, and I think if we apply our rationale and the rationale
6	has to do with exposures to arsenic and cadmium, among other
7	things then I think prostate is legitimately one that ought to be
8	considered.
9	<b>DR. WARD:</b> Okay. Anyone else who would like to have discussion
10	before we vote?
11	<b>DR. WEAVER:</b> Virginia Weaver, and I have some concerns about
12	prostate because we could do more harm than good. In this
13	current environment where there's so much concern about the
14	appropriate technique to screen for prostate, and we know that we
15	pick up cancers that may never actually become metastatic and
16	cause significant disease but the surgery can be quite disabling, I
17	have concerns about including a cancer when there's less certain
18	evidence and concerns about the screening approach.
19	DR. TALASKA: Glenn Talaska, I have to chime in here, too. I think
20	my reservations with prostate cancer have to do with the one
21	carcinogen that we that is known to be a prostatic carcinogen
22	and that's cadmium. And again, going back to the Edelman data
23	with all their flaws, the levels of cadmium which has a very long
24	half-life in the firefighters at the site was lower than the
25	firefighters who never entered the site, and they were both
26	relatively low levels of cadmium. So that exposure you know,
27	they weren't anywhere near elevated, compared even to
28	population levels. And they were lower in the firefighters who
29	entered the World Trade Center than those who were who never
30	entered it and were used as the control group for that study. So it
31	would take away that one exposure that we have any exposure
32	data on.
33	<b>DR. WARD:</b> This is Liz no, go ahead.
34	MS. FLYNN: I'm sorry, this is Kimberly. I do want to point out,

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	however, that arsenic is also linked with prostate cancer and that,
	again, the absence of data does not indicate the absence of
	exposure. So Edelman didn't capture arsenic.
	And the second thing I want to say is, while I understand Virginia's
	hesitations, I think that those fall outside of the purview of the
	STAC. I think those issues of screening and whether or not, you
	know, there would be too many surgeries, all come under the
	purview of implementation of those implementing STAC
	recommendations.
	MR. CASSIDY: Steve Cassidy.
	DR. WARD: Go ahead.
	MR. CASSIDY: I agree with that last comment about being
	concerned about surgeries. I mean I don't think that has anything
	to do with our decision. It may be a legitimate concern, but has
	nothing to do, in my view, with whether or not we consider
	prostate cancer being included.
	And the other comment is that I'm certain not being at the World
	Trade Center was better than being at the World Trade Center,
	whatever those reports indicate about cadmium. That doesn't
	make any sense whatsoever.
	DR. WARD: Yeah, this is Liz, and I guess, you know, the things tha
	are weighing on my vote is the fact that the you know, the
	epidemiological data for cadmium and arsenic in prostate is
	relatively weak, and essentially the study of firefighters was
	essentially a negative study, not showing an association with
	prostate cancer and the fact that we really have very little previou
	evidence of prostate cancer being associated with
	occupational/environmental exposure, so I guess you know, in
	my mind the that the ration you know, the rationale for
	expecting that there will be an association is relatively weak
	compared to many of the others. And yeah, that's basically
	where I'm coming from.
	MS. SIDEL: Hi, it's Susan Sidel. May I ask a question?
	DR. WARD: Sure.

1	MS. SIDEL: What is the average age for prostate cancer, because
2	for some reason in my mind I thought it was like older men and we
3	were seeing it in younger men, that that was one issue. And that
4	the other issue was that I remember someone coming in to
5	testify about how seclusive (sic) it was in her father's case and that
6	usually it's it doesn't it's not quite as rapid of a progression as
7	what happened with her dad. And I was wondering if that you
8	know, if there's somehow we can carve out like exceptions to
9	general rules, or is that getting into policy?
10	<b>DR. WARD:</b> Well, that's why you know, that's why we talked
11	about age in the rare cancer thing, so so if some you know,
12	rates of prostate cancers start going up once you hit about age 45,
13	you start getting an increase in incidence of prostate cancer. So
14	our recommendation was that the program really take age into
15	account, and so if someone is diagnosed with prostate cancer at
16	age 30, then they're you know, you would look at the expected
17	incidence of prostate cancer at let's say age 20 to 30 or 30 to 40 as
18	your definition of a rare cancer. So that was specifically I mean
19	so that so someone diagnosed with prostate cancer at a really
20	early age would be picked up by the rare cancer.
21	MS. SIDEL: Right.
22	<b>DR. WARD:</b> But the other thing is, you know, comparing the
23	average age at which cancer is diagnosed is a really tricky business.
24	So for example in the firefighters' study they excluded everyone
25	over age 60 from the study, and the vast majority of people in the
26	population were much younger than 60, so it almost it almost
27	has to be true that the average age of diagnosis of prostate cancer
28	would be much lower than in the general population 'cause you
29	didn't have anybody over the age of 60 in that study.
30	MS. SIDEL: Yeah, so it gets skewed, yeah.
31	DR. QUINT: This is Julia. In addition to the LeMasters' meta-
32	analysis of firefighters and showing I think it was, you know, 1.28
33	increase of prostate cancer, the IARC also did a meta-analysis after
34	the LeMasters study which included two new epidemiological

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	studies and also found, again, an increase in prostate cancer.
	That's in Volume 98 of the monograph.
	So it seems that, you know, you keep finding prostate cancers
	among workers firefighters in this case who have, you know,
	the exposure to some of the same things that were just but mor
	so at the World Trade Center. So I know this has been used to sor
	of indicate that firefighters have, you know, a propensity for
	prostate cancer, and it wasn't increased based on the World Trade
	Center exposures, and I would say that possibly we didn't see any
	increase because, you know, these they're having these
	exposures all the time and it's increased their the rate of
	prostate cancer. So I'm going on the basis of like typical you
	know, all of these mixtures of exposures literally being related to
	an increase in prostate cancer based on lots of studies now, two
	meta-analyses and lots of epidemiological studies and you it jus
	won't go away. So it seems to me there is something there.
	MS. HUGHES: Catherine Hughes here. Is brain cancer considered
	rare cancer?
	<b>DR. WARD:</b> Well, I mean the well, the you know well, it's a
	lot rarer than lung and prostate and colorectal and breast. Again,
	where you draw the line you know, I'm not sure where it will fal
	when you draw the line, but it like I say, it is a fairly uncommon
	cancer compared in most age groups compared to many of the
	others we're talking about.
	MS. MEJIA: This is Guille. I really do have a concern about voting
	for prostate cancer when in a prior motion we had already voted t
	exclude it, so I just wanted to chime in.
	But the other thing is that we have to also consider a lot of
	surveillance that has taken place with prostate cancer and all the
	initiatives that have been undertaken by many public health
	departments and organizations to increase awareness of prostate
	among the male population, so you know, so there's there's
	going to be a lot more people a lot more men identify with
	prostate as a result of some of these screenings.

1	<b>DR. WEAVER:</b> This is Virginia, and I think that's a very good point.
2	Bob Harrison had made that, that surveillance bias for prostate
3	cancer is probably a big contributing factor to the increased rates
4	that are observed in men. And once again it just makes me
5	anxious, if we're not sure exactly how we should be screening and
6	when we should be doing surgery, that we could do more harm
7	than good.
8	DR. WARD: Yeah, I think that the surveillance bias makes it really
9	very hard to interpret epidemiologic studies for prostate. It
10	because even if you look at the long-term incidence rates for
11	prostate over time in the U.S., there's this huge peak in incidence
12	when the PSA screening was introduced. And what's even stranger,
13	there's also a little peak in mortality, and I we think it's just
14	that peak in mortality is not really due to more men dying of
15	prostate cancer, it's just that when physicians were filling out the
16	death certificates, you know, their awareness of prostate cancer
17	and was increased and they and more cases were getting
18	diagnosed so they were being included on the death certificate, but
19	they weren't really it wasn't that more men were dying of
20	prostate cancer. So when you have one of these cancers that is so
21	influenced by you know, there's such a large reservoir of
22	prostate cancers in men that are not systematic and would not be
23	diagnosed, except for the PSA test, that it just makes it incredibly
24	hard to do, you know, good epidemiologic studies.
25	MS. DABAS: Hi, this is Valerie. I mean I think that we my
26	understanding is FDNY takes the PSA test, regardless, anyway. So if
27	you're looking at the World Trade Center group, this was
28	something that they were doing ordinarily prior to, so I'm not sure
29	how surveillance bias falls into a group that was already getting
30	monitored, especially when they're looking at another group in a
31	similar circumstance.
32	<b>DR. WEAVER:</b> This is Virginia. And that's why there's an increased
33	rate in both the exposed and unexposed firefighters 'cause both of
34	them have been screened for prostate cancer.

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	MS. DABAS: But I assume that there's a difference in the rate
,	between the exposed and the non-exposed, and that's what we're
1	looking at.
	<b>DR. WEAVER:</b> The rates are pretty similar. They're both elevated.
	MS. DABAS: But to a different degree.
	DR. WARD: No. Well, does anybody have the study in front
	DR. ALDRICH: (Unintelligible), I mean the rates are statistically
	identical. The SIR ratio, which is the ratio of the SIR for the
	exposed to the SIR for the unexposed, was 1.11 with a confidence
	interval in the range of some .77 to 1.59. You can't get closer to
	one than that. There's no dif there's no statistical difference,
	there's no meaningful difference, in those rates.
	DR. MIDDENDORF: And that's Tom Aldrich speaking.
	<b>DR. ALDRICH:</b> I'm sorry, I should have identified myself.
	MR. CASSIDY: Does anybody have any information on studies that
	would outline how long after an exposure that people would
,	expect to get prostate cancer?
	DR. MIDDENDORF: And that's Steve Cassidy.
	MR. CASSIDY: That's Steve Cassidy, yes.
	<b>DR. ROM:</b> This is Bill Rom, and I'm just signing off and turning my
	vote over to Tom Aldrich 'cause I have a grand rounds speaker to
	introduce, but I think that prostate is the problem of over-
	diagnosis, with no occupational association.
	DR. MIDDENDORF: Unfortunately, Bill, if you leave you cannot
	have someone vote as a proxy for you.
	<b>DR. WARD:</b> That does bring up the issue. It is now five minutes to
,	5:00 and, you know, we are in danger about those people who have
	other commitments have to leave. So I with regard to Steve's
	question, though, I think I mean I haven't done a literature
	search on that specific point, but there are so few studies
	documenting what the causes you know, documenting clear
	causal factors for prostate cancer that it would you know, I don't
	think you'd find studies that were able to define what the length of
	time was between the exposure and the outcome. 'Cause for that,

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you really need a pretty strong effect, so I don't think that data is
going to be available.
So I guess the que are there any other points on the prostate
cancer question that haven't, you know, been covered in one way
or another that anyone would like to see, and if not, I think we
should call this for a vote because we do want to make sure that
we have time to, as a Committee, draft the rationale for the breast
cancer inclusions before people have to leave, because every you
know, essentially everything you know, everything that's in this
we have to draft, as a Committee, everything that's going in this
in this letter to Dr. Howard. So are there any pressing issues
related to prostate cancer that have not already been covered?
DR. TRASANDE: This is Leo Trasande. I move to vote.
<b>DR. WARD:</b> Okay. Paul, go ahead with the vote.
DR. MIDDENDORF: Okay. Tom Aldrich? Oh, I need to restate the
motion. The motion is 'The Committee recommends adding
prostate to the list of covered conditions.'
DR. ALDRICH: I vote no.
DR. MIDDENDORF: Tom Aldrich, no. Steve Cassidy?
MR. CASSIDY: Yes.
DR. MIDDENDORF: Valerie Dabas?
MS. DABAS: Yes.
DR. MIDDENDORF: John Dement?
DR. DEMENT: No.
DR. MIDDENDORF: Kimberly Flynn?
MS. FLYNN: Yes.
DR. MIDDENDORF: Bob Harrison?
DR. HARRISON: No.
DR. MIDDENDORF: Catherine Hughes?
MS. HUGHES: Yes.
DR. MIDDENDORF: Guille Mejia?
MS. MEJIA: Yes.
DR. MIDDENDORF: Julia Quint?
DR. QUINT: Yes.

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	DR. MIDDENDORF: Bill Rom?
	DR. ROM: No.
	DR. MIDDENDORF: Susan Sidel?
	MS. SIDEL: Yes.
	DR. MIDDENDORF: Glenn Talaska?
	DR. TALASKA: No.
	DR. MIDDENDORF: Leo Trasande?
	DR. TRASANDE: No.
	DR. MIDDENDORF: Liz Virginia Weaver?
	DR. WEAVER: No.
	DR. MIDDENDORF: Liz Ward?
	DR. WARD: No.
	DR. MIDDENDORF: Okay, I have eight no and seven yes. The
	motion does not carry.
	Liz, I was wondering if we might want to take a very short break to
	let people do whatever they need to for five minutes and then
	come back?
	DR. WARD: That's fine with me.
	UNIDENTIFIED: I actually object. I actually am going to have to ge
	off this call fairly soon, and I'm actually concerned about quorum -
	UNIDENTIFIED: And I'm
	UNIDENTIFIED: (unintelligible) fifteen.
	<b>UNIDENTIFIED:</b> going to be kicked out of my space at 5:00
	o'clock.
	DR. WARD: Okay, so let's
	DR. MIDDENDORF: Let's proceed on then.
	UNIDENTIFIED: Thank you very much.
	<b>DR. WARD:</b> So we need a at least let's get the bullet points dow
	for what the main reasons for which the Committee is
	recommending that breast cancer be included are.
	<b>DR. QUINT:</b> Well, I think one reason is the there are some
	studies showing a positive relationship between levels of PCBs in
	both sera and tissue, mammary tissue, and increased risk of breas
	cancer. I can quote I mean I have I can get some you know,

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	it's not the studies are not consistent, but there are some
	positive studies showing that relationship.
	<b>DR. WARD:</b> Okay. And I think we should include, since I know that
	there's a large volume of literature, I think it would be appropriate
	to cite
	<b>DR. MIDDENDORF:</b> Okay, I need to get that last thought down.
	What is it, some studies correlating PCBs and what?
	DR. QUINT: Breast cancer.
	DR. MIDDENDORF: Breast cancer, okay.
	<b>DR. QUINT:</b> Liz might be able to you're more familiar with the
	data, but I do have I mean would you state that differently?
	<b>DR. WARD:</b> I would guess I'd have to say: However, evidence is
	conflicting. Because
	DR. QUINT: (Indiscernible)
	DR. WARD: (Indiscernible) some studies that don't find an
	association.
	<b>DR. TALASKA:</b> This is Glenn. There is some evidence of exposure
	to PCBs in the World at Ground Zero and in the World Trade
	Center. There was the window film showed it and there was also
	some people were posi had higher there was PCBs in some
	samples.
	DR. QUINT: And then I think the lack of
	DR. MIDDENDORF: What kinds of samples, Glenn?
	DR. TALASKA: Biological samples. I don't remember what the
	there were air samples window films, and there were some
	one or two congeners that were elevated in blood samples.
	<b>DR. MIDDENDORF:</b> Do I have this correct? 'Evidence of exposure
	to PCBs in air samples
	DR. TALASKA: Window films.
	DR. MIDDENDORF: films
	DR. TALASKA: And in some blood samples, and that would be le
	me try to find the
	<b>DR. WARD:</b> I think it maybe is the Dahlgren study.
	<b>DR. TALASKA:</b> That's right, Dahlgren, thank you.

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	<b>DR. WARD:</b> And that's on page 17.
	DR. TALASKA: Yeah.
	DR. MIDDENDORF: Okay.
	<b>DR. QUINT:</b> Then I think we should also add the 2010 study
	showing that PCBs enhance the metastatic properties of breast
	cancer cells, activating the Rho-associated kinase, the ROCK, that
	was shown both in vivo and in vitro.
	<b>DR. MIDDENDORF:</b> Can you say that again for me, Julia?
	DR. QUINT: A recent a 2010 study showing that PCBs enhance
	the metastatic properties of breast cancer cells by activating the
	Rho-associated kinase, or R-O-C-K.
	DR. MIDDENDORF: You're going way too fast for me.
	DR. QUINT: Oh, I'm sorry.
	DR. MIDDENDORF: Metastatic properties of breast
	DR. QUINT: Cancer cells.
	DR. MIDDENDORF: Yes?
	DR. QUINT: By activating R-h-o associated kinase.
	DR. MIDDENDORF: R-h-o?
	DR. QUINT: Uh-huh.
	DR. MIDDENDORF: Okay.
	DR. QUINT: Dash, associated kinase, R-O-C-K. And that was show
	in that study in vitro human breast cancer cells in vitro and also
	in vivo. And I don't know if you need this, but the cells were
	metastasized to bone, liver to bone, lung and liver.
	DR. WARD: And Julia, if any of these studies is not available on the
	site, will you send them to Paul?
	<b>DR. QUINT:</b> Yeah, I have this this study was a free download so
	can send the study, the one I just mentioned, and I will send I
	will try I probably can get the one positive study, and I'll look fo
	the others showing the association between PCBs and breast
	cancer risks. The one I'm looking at now is <u>Cancer:</u>
	Epidemiological Biomarkers, 2000, by a Canadian group, Harrison
	et al.
	DR. WARD: Now I mean I think there's at least 20 studies that

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	have been done.
	<b>DR. QUINT:</b> That's right, and about 20 negative ones, as well. I
	don't know, I'm just saying, I know it's inconsistent.
	DR. WARD: Yeah.
	<b>DR. QUINT:</b> I think it's the endocrine-disrupting properties of PC
	as well.
	DR. WARD: I was really
	DR. MIDDENDORF: If you want something more, you need to give
	me the words 'cause I don't want to put words in the Committee'
	mouth.
	DR. QUINT: Yeah, I let me find
	DR. WARD: Then we could probably say something like PCBs and
	some other substances present at the WTC site
	DR. MIDDENDORF: I'm sorry, say that again.
	DR. WARD: And some other substances
	DR. MIDDENDORF: Yes.
	DR. WARD: at the WTC site are
	DR. MIDDENDORF: At the WTC site.
	<b>DR. WARD:</b> are endocrine disrupters, therefore potentially cou
	(indiscernible).
	DR. QUINT: And I think we should I don't know if you
	<b>DR. TALASKA:</b> Liz, it's Glenn. I have to ring off.
	DR. WARD: Okay. Thanks, Glenn.
	<b>DR. TALASKA:</b> Sure thing, bye-bye.
	<b>DR. WARD:</b> And Julia, I think it probably should say some well,
	don't know if all PCB congeners are endocrine disrupters. I
	DR. QUINT: Right.
	<b>DR. WARD:</b> think that some of them are estrogenic and some of
	them are anti-estrogenic.
	<b>DR. QUINT:</b> That's exactly right, so we'd have to I don't have
	that in front of me, unfortunately. So maybe just saying the or
	that were linked to the breast cancer risk in this one study were
	congeners 105 and 108 I'm sorry, 105 and 118, and 170 and 18(
	DR. WARD: My suggestion would be not to include get to that

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level of specificity
DR. QUINT: Yes, right.
DR. WARD: because we're not going to have time to look at
other studies and
DR. QUINT: Okay.
DR. WARD: (indiscernible) same thing.
DR. QUINT: Exactly.
DR. WARD: So with the sentence that you're typing, Paul, it could
be you could just 'endocrine disrupters, which potentially
could influence breast cancer risk.' And we could somewhere ge
in there, 'Breast cancers are highly dependent on hormonal factors
and therefore endo
DR. MIDDENDORF: On hormonal
DR. WARD: Factors, or are highly related to hormonal factors,
therefore yeah. Therefore could be impacted by endocrine
further to endocrine disrupters.
Then I think our next point could be that there's varying you
know, that the opportunities to identify (indiscernible) related to
occupational exposures
DR. MIDDENDORF: To identify what related to occupational
exposures?
DR. QUINT: Increased breast cancer risks.
DR. WARD: Yeah.
UNIDENTIFIED: It's not showing up on the screen on the
computer screen.
DR. MIDDENDORF: Can you see it now?
DR. QUINT: Yes.
DR. MIDDENDORF: Okay.
<b>DR. QUINT:</b> To identify breast cancer risks, right?
<b>DR. WARD:</b> Right, related to occupational exposures have been
extremely limited due to small numbers of women in industrial
occupations.
DR. MIDDENDORF: Small numbers of women
<b>DR. WARD:</b> In industrial occupations and/or yeah, in

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	epidemiologic studies of industrial populations.
	<b>DR. MIDDENDORF:</b> You'll have to restate that small numbers of
	women in
	DR. QUINT: Included.
	DR. WARD: It's due to small numbers of women in industrial
	population studies.
	<b>DR. MIDDENDORF:</b> Industrial population studies?
	<b>DR. WARD:</b> Yeah, that's good.
	DR. MIDDENDORF: Okay.
	<b>DR. WARD:</b> Okay. Are there any other points in the rationale that
	we should include?
	MS. SIDEL: Hi, it's Susan Sidel. Do we want to say anything about
	the lack of studies on women in this program generally?
	<b>DR. WARD:</b> Not sure that's a part of the scientific rationale for
	recommending
	MS. SIDEL: Okay, you're right.
	DR. WARD: be included.
	MS. SIDEL: Okay.
	<b>DR. WARD:</b> Okay, are there any more points on that, or Paul can
	take I think Paul can take the language that he's got and and
	references sent by Julia and finalize the rationale for
	<b>MS. FLYNN:</b> This is Kimberly. Are you interested in the citation or
	shift work, or is that not useful?
	DR. WARD: I think we could add that as an additional bullet
	MS. FLYNN: Okay.
	DR. WARD: included in the COPC list of potentially of potenti
	contamin while not included in the list of potential
	contaminants of concern, it is known that, you know, shift work
	was done at the World Trade Center site and IARC has found I
	can't remember if it's 'limited' or 'sufficient' evidence for increase
	risk of breast cancers associated with shift work involving I thin
	it's involving I forget, but I'll see if I can find it, but I think that
	would probably be enough for the Committee to agree on. So Pau
	are you getting that?

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	DR. MIDDENDORF: No, my mind was elsewhere, I'm sorry. Do yo
	have another bullet, and what is the bullet?
	<b>DR. WARD:</b> IARC has found then leave a blank for 'limited' or
	'sufficient' 'cause I can't remember which, whichever one is correc
	evidence for an association between breast cancer and shift
	work. There was a little modifier of the shift work, but I think
	<b>DR. MIDDENDORF:</b> Wait a minute, you're getting too far ahead o
	me.
	DR. WARD: Between breast
	DR. MIDDENDORF: Between breast cancer and shift work okay.
	<b>DR. WARD:</b> Then, period. It you know, both both I'm tryin
	to think both shift work and shifts of long duration were commo
	at the World Trade Center site. Yeah, were common at the World
	Trade among personnel at the World Trade Center.
	DR. MIDDENDORF: I'm sorry, what?
	DR. WARD: Were among personnel involved in World Trade
	Center rescue, recovery the list of list of categories of people
	that were involved in the cleanup, the recovery, the rescue, the
	think Guille gave me that language for the first part. Right, Guille
	do you remember? Still here? Okay.
	DR. ALDRICH: Do you want to know about a typo on the previous
	page? Line 31, metastatic.
	DR. MIDDENDORF: Such things are going to be able to be handled
	by Liz. She can do copy editing after this. It's just that the conter
	has to be finished here in this meeting.
	UNIDENTIFIED: Okay, I have what I think are pretty
	DR. MIDDENDORF: This is not finished both shift work and shif
	of long duration were common
	<b>DR. WARD:</b> Okay, so I'm looking for the
	<b>DR. ALDRICH:</b> at the World Trade Center.
	<b>DR. WARD:</b> At the yeah, that's good enough, I think, for this. I
	mean I just found the list of you know, the language that Guille
	Mejia suggested was 'engaged in rescue, recovery, demolition
	debris cleanup, and other related services.'

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	<b>DR. ALDRICH:</b> Well, why be so specific?
	<b>DR. WARD:</b> Yeah, we don't have to be that yeah.
	UNIDENTIFIED: (Unintelligible) volunteers.
	<b>DR. WARD:</b> Is everybody comfortable with the language as Paul
i	has it typed now?
	UNIDENTIFIED: Will you also be sending the Committee members a
,	revision of this draft with the changes? What's the time frame for
	that?
)	<b>DR. MIDDENDORF:</b> When this meeting is over I'm going to save it.
)	I will send it to the entire Committee. The Committee needs to
	commission Liz to make typographical and copy editing changes to
	whatever is here, but nothing more.
	UNIDENTIFIED: Thank you very much.
	DR. MIDDENDORF: Okay. There are some things here in the report
	that I think need to be edited out.
5	DR. QUINT: Not to mention the things that are not factually
,	correct.
5	<b>DR. MIDDENDORF:</b> Well, on that problem we've got this note on,
)	the text highlighted below does not reflect, and we don't want
)	that.
	DR. QUINT: I'm sorry?
	DR. ALDRICH: (Unintelligible)
	<b>DR. MIDDENDORF:</b> I'm sorry, on page three at the very top it says
	(reading) Please note that the text highlighted below does not
	reflect the final recommendation of the STAC. The text is for
5	review by the Committee. We still take discussion of options for
,	the recommendation and will be used as appropriate in the final
	draft to support the recommendations.
)	So I'm assuming that you want that out.
)	DR. ALDRICH: Yes.
	DR. MIDDENDORF: Is that correct?
	DR. WARD: Yes.
	DR. QUINT: Right.
	DR. MIDDENDORF: All right. Option one was voted down. Do you

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	want that out?
	DR. WARD: Yes.
	DR. QUINT: Yes.
	<b>DR. MIDDENDORF:</b> So all of option one goes away.
	<b>DR. ALDRICH:</b> Although at some point later on there was some
	reference to some members of the Committee supported more and
	no reason not to leave that in. Right?
	<b>UNIDENTIFIED:</b> Yeah, I have to you know what, I wanted to
	comment on the option one because it raised like limitations of
	data and stuff like that, which is relevant. Like if you do a scientific
	experiment you talk have a limitations section, so some of it is
	relevant to the discussion, particularly when you talk about, you
	know, some of the evidence and you know, by you look at
	you can't delete all of option one.
	<b>DR. MIDDENDORF:</b> Then you're going to need to go line by line
	and tell me what to delete and what not to delete, or what to
	change.
	DR. WARD: So Paul
	DR. MIDDENDORF: Yes.
	<b>DR. WARD:</b> I think for sure you want to keep the last paragraph
	in option one. Maybe we'll want to move it to the end.
	UNIDENTIFIED: Perfect.
	UNIDENTIFIED: I agree, that's really good.
	<b>UNIDENTIFIED:</b> And what about the second to last paragraph
	about the findings of the FDNY study? So that's on page four, lines
	4, 5 and 6. That should also be included.
	<b>DR. ALDRICH:</b> I think that's discussed elsewhere and it doesn't
	advance this argument.
	UNIDENTIFIED: Okay.
	DR. WARD: Yeah.
	<b>DR. MIDDENDORF:</b> Okay, I'm I need you to tell me exactly what
	to do.
	<b>DR. WARD:</b> Okay, take that paragraph and then scroll to the
	<b>En Write</b> , Okuy, take that paragraph and then solon to the

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	<b>DR. WARD:</b> Yes. Scroll on down to the end of the letter to Dr.
	Howard.
	DR. MIDDENDORF: Go ahead. Scroll down?
	DR. WARD: Yeah.
	DR. ALDRICH: Page 28, more or less.
	DR. WARD: Okay. So go back okay. So the question so mayb
	we move it right before the 'We appreciate the opportunity'
	paragraph, and we need to figure out some way to make the
	transition.
	DR. MIDDENDORF: So you want this paragraph removed from
	here.
	DR. WARD: Yes.
	DR. MIDDENDORF: You want it at this insertion point.
	DR. WARD: I think so. So we just need to modify that first
	sentence so it's a more appropriate transition. Maybe something
	like: The Committee recognizes the limitations of existing eviden
	and the possibility that the presence of multiple exposures and
	mixtures could produce unexpected results. Something like that.
	<b>DR. ALDRICH:</b> Well, it has to be something specifically related to
	the non-covered cancers.
	<b>DR. WARD:</b> I think it's really the issue of acknowledging that
	they're we're making this recommendation in the light of
	considerable data limitations and uncertainties because
	DR. ALDRICH: The previous paragraph exactly leads into this. If
	this was rather than a new paragraph, part of the previous
	paragraph.
	<b>DR. WARD:</b> What are you seeing as the previous paragraph?
	<b>DR. ALDRICH:</b> (Reading) The Committee also recommends that, ir
	addition to treatment of the listed cancers for the listed cancer
	sites, the health program provides funding and guidelines for
	medical screening and early detection based on a review of
	evidence regarding risks and benefits to the
	Oh, no, you're right, it doesn't it doesn't (unintelligible).
	<b>DR. WARD:</b> And actually at the end of the paragraph we make

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	reference to the lack of epidemiologic data on female breast
	cancer, so we probably need to take that sentence out now that
	we've included breast.
	UNIDENTIFIED: Right.
	DR. WARD: So we need to take the last two sentences here out.
	DR. MIDDENDORF: These two sentences?
	DR. WARD: Yes.
	DR. MIDDENDORF: Additional concern starting with 'An
	additional concern' on line 14 and ending with 'reproductive organ
	is limited' on line 18?
	DR. WARD: Right.
	DR. ALDRICH: You can leave that second to last sentence there.
	That's not contradicts anything we've said before, and it's
	relevant.
	<b>DR. WARD:</b> Okay, so it's just the last one on breast.
	DR. ALDRICH: Yeah.
	DR. MIDDENDORF: So starting on line 16 with '(indiscernible)
	availability' and going through 'is limited.'
	DR. WARD: Right.
	DR. MIDDENDORF: On line 18. Okay.
	<b>DR. ALDRICH:</b> How about instead of at the beginning of that, the
	second line of that paragraph, instead of saying 'arguments in favo
	of listing all cancers', 'arguments in favor of listing additional
	cancers'?
	DR. WARD: Okay. But then we need to have a final sentence that
	explains why we didn't, I guess. We could at the end say:
	However, the majority of the Committee felt that
	<b>DR. ALDRICH:</b> Yeah, you're right.
	<b>DR. WARD:</b> you know, the recommendations that were made
	reflected the best available or kind of sound scientific rationale
	and reflected the best available evidence at this time.
	DR. ALDRICH: I like it.
	<b>DR. MIDDENDORF:</b> What is it where and what?
	DR. WARD: At the end of that paragraph

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1	DR. MIDDENDORF: Yes.
2	<b>DR. WARD:</b> However, the majority of Committee members
3	agreed that the recommendations made above have are based
4	on a sensible scientific rationale and reflect the best
5	DR. MIDDENDORF: Sorry, say that again.
6	DR. WARD: A sensible scien are based on a sound scientific
7	rationale and the best and the best evidence available today.
8	<b>DR. ALDRICH:</b> That's good.
9	<b>DR. WARD:</b> Okay. Looks good to me.
10	DR. ALDRICH: Like it a lot.
11	DR. WARD: Good. So shall we move on to the
12	DR. MIDDENDORF: How about if we go back up and look at option
13	one. Does the rest of this go away?
14	DR. WARD: I think so.
15	DR. ALDRICH: Yep.
16	DR. MIDDENDORF: And with highlighted. You want this header,
17	option two?
18	<b>DR. WARD:</b> No, that can go away, I think.
19	DR. MIDDENDORF: (Indiscernible) trying to do.
20	DR. WARD: Endnotes is horrible. Endnotes will hijack your
21	document.
22	DR. MIDDENDORF: And she hung up.
23	DR. WARD: All right. Do you have a hard copy that you can write
24	notes on?
25	(Pause)
26	DR. MIDDENDORF: Okay, back to doing business. Okay, so this
27	at least I thought I was.
28	(Pause)
29	DR. MIDDENDORF: It'll pull up other documents but this one is
30	hung up.
31	<b>DR. WARD:</b> Yeah, I mean and I do think you're at the point where
32	maybe a hard copy would suffice 'cause I think all we're going to
33	I mean I think all we need to do here is cross out the bold header
34	and then

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	DR. MIDDENDORF: If you want to do that I mean you can work
	on that yourself.
	DR. WARD: Well, I can't do it and share it with the Committee, s
	what I'm saying is we cross out the bold header, then instead of
	saying I would suggest amending the next sentence is 'The
	Committee recommends listing of the following site groupings ar
	sites' and then we take out 'each to be discussed and voted on
	separately' 'be listed as World Trade Center-related conditions
	based on the strength of the evidence summarized in Table 4 and additional evidence discussed below.'
	And that's, I think, all you need to do. DR. MIDDENDORF: Okay. Is that what the Committee wants?
	DR. ALDRICH: I'm for it.
	DR. WARD: That's fine.
	UNIDENTIFIED: Sounds good to me.
	<b>DR. MIDDENDORF:</b> I obviously can't do anything more with this
	document, so
	<b>DR. ALDRICH:</b> Well, I think the Commit this is Tom Aldrich. I
	think the Committee the sense of the Committee is we know
	what needs to be accomplished and we trust Liz to do it.
	<b>DR. WEAVER:</b> This is Virginia. Lagree.
	MS. MEJIA: Lagree, too. This is Guille.
	<b>DR. TRASANDE:</b> This is Leo Trasande. I agree, and I also have to
	sign off at this point.
	<b>DR. DEMENT:</b> This is John Dement, and I agree as well.
	DR. QUINT: I agree Julia.
	DR. HARRISON: This is Bob, I agree.
	UNIDENTIFIED: (Unintelligible), lagree.
	MS. FLYNN: This is Kimberly. I agree, but I have one question,
	which is any any small wording changes, are they still possible
	not? I'm thinking of, for instance, adding the word 'survivors' to
	line 28. Possible?
	MR. CASSIDY: This is in the interim this is Steve Cassidy. I
	agree.

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DR. WARD: Can you read that full sentence just to make sure we
got it in the right place?
MS. FLYNN: Are you asking me, Liz?
DR. WARD: Yes, because I think I'm not sure what line 28 is
anymore.
MS. FLYNN: Oh, I'm sorry, I understand. (reading) However, the
Committee considers that the high prevalence of acute symptom
and chronic conditions observed in large numbers of rescue,
recovery, cleanup and restoration workers It should say 'and
survivors' (reading)as well as qualitative descriptions of
exposure conditions in downtown Manhattan et cetera.
DR. WARD: Okay, so is everybody on the Committee happy with
that change?
UNIDENTIFIED: That's fine.
UNIDENTIFIED: Fine.
UNIDENTIFIED: (Unintelligible) it's good.
UNIDENTIFIED: Right.
MS. FLYNN: And I don't know how much patience people have for
anything additional like that.
DR. WARD: And Julia, can you send me I assume these factual
errors are not something that the Committee needs to
(unintelligible) the group to be addressed, so if you'd just let me
know what they are.
DR. MIDDENDORF: If there are substantive changes, then the
Committee needs to be aware of them and agree to them.
DR. WARD: Okay, Julia, can you kind of go through them quickly
with I mean we won't need to make them in the document, bu
we can
DR. WEAVER: This is Virginia and I need to sign off. I'm sorry.
DR. WARD: Okay, thanks for coming.
(Pause)
DR. WARD: Julia? Hello?
MS. DABAS: Hi, it's Valerie. Do we still have a quorum?
<b>DR. MIDDENDORF:</b> That's a good question.

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1	<b>UNIDENTIFIED:</b> I'm here right now, but they're kicking us out. It's
2	almost 5:30, so you need me to vote on something?
3	<b>DR. WARD:</b> Well, I guess at this point Paul, I don't know that we
4	have any choice but to
5	<b>DR. MIDDENDORF:</b> I think we're likely below quorum at this point.
6	DR. WARD: Yeah, so we'll so Julia, if you're still on, can you send
7	me a list of the factual changes or send it to the entire
8	Committee, and I will go ahead and do fact-checking and
9	incorporate them?
10	<b>DR. MIDDENDORF:</b> And whatever that is, we'll probably need to
11	post that so that everyone can see, it's part of the open record.
12	<b>DR. WARD:</b> Okay, Paul, it may be down to just you and I.
13	<b>DR. DEMENT:</b> No, I'm this is John. I'm here, but I don't think we
14	have enough to do anything.
15	DR. WARD: Yeah.
16	<b>DR. ALDRICH:</b> Tom Aldrich, I'm also here, but you know, it's
17	we're pretty much done and I think you can handle the additional
18	facts and changes and what-not.
19	DR. QUINT: Liz?
20	DR. WARD: Yes.
21	<b>DR. QUINT:</b> I'm sorry, my phone gave out so I was off for a minute.
22	DR. WARD: Oh, okay.
23	<b>DR. MIDDENDORF:</b> I think we're below the quorum.
24	<b>DR. QUINT:</b> Okay, 'cause I had some er there's some a couple
25	of errors on page 15
26	DR. WARD: Okay.
27	<b>DR. QUINT:</b> that I wanted to call to your attention, but I guess
28	it's too late now.
29	<b>DR. WARD:</b> Well, not necessarily. I think the Committee basically
30	agreed that you know, that we can make those corrections
31	DR. QUINT: Okay.
32	DR. WARD: so we would like you to put them in a list so that
33	they can be shared
34	DR. QUINT: Okay, that's fine.

MS. HUGHES: I second it. Catherine Hughes seconds it.
<b>DR. MIDDENDORF:</b> I don't know that we have a quorum that co
even vote on it, so
<b>DR. WARD:</b> (Unintelligible) I don't know.
<b>DR. QUINT:</b> Yeah, my phone just completely went off. All right
send you those.
<b>DR. WARD:</b> Thank you.
<b>DR. MIDDENDORF:</b> Send it to everyone, please.
DR. QUINT: I'm sorry?
<b>DR. MIDDENDORF:</b> Send it to everyone.
DR. QUINT: Oh.
UNIDENTIFIED: Liz, I have to check off also. I want to thank you
and Paul for doing this, and we'll be in touch. Thank you.
DR. WARD: Great, thank you.
UNIDENTIFIED: I have to sign off, too. Thank you so much, Pau
and Liz and everybody else on the Committee. Thank you very
much.
DR. WARD: Thank you.
<b>DR. MIDDENDORF:</b> Yeah, we need to cut this off then. Thanks
everyone on the Committee. On behalf of the program I want t
express a lot of appreciation for all the hard work under very
strenuous conditions and think you've done an excellent job.
Thank you very much.
<b>UNIDENTIFIED:</b> Thank you, Paul. Thank you, Liz.
<b>UNIDENTIFIED:</b> And thank you, Liz. Thank you so much. See yo
later, bye.
(Teleconference concluded at 5:32 p.m.)

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## CERTIFICATE OF COURT REPORTER STATE OF GEORGIA COUNTY OF FULTON

1

I, Steven Ray Green, Certified Merit Master Court Reporter, do hereby certify that I reported the above and foregoing on the day of March 28, 2012; and it is a true and accurate transcript of the proceedings captioned herein.

I further certify that I am neither related to nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 26th day of April, 2012.

STEVEN RAY GREEN, CCR, CVR-CM-M, PNSC CERTIFIED MERIT MASTER COURT REPORTER CERTIFICATE NUMBER: A-2102