# 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 WORLD TRADE CENTER HEALTH PROGRAM

FOURTH MEETING

## SCIENTIFIC/TECHNICAL ADVISORY

### **COMMITTEE (STAC) MEETING**

February 14, 2014

The verbatim transcript of the

Meeting of the Scientific/Technical Advisory

Committee Meeting held telephonically on February

14, 2014, 9:30 a.m.

STEVEN RAY GREEN AND ASSOCIATES NATIONALLY CERTIFIED COURT REPORTING 404/733-6070

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#### TRANSCRIPT LEGEND

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

-- "^" represents indiscernible or indiscernible speech or speaker failure, usually failure to use a microphone or multiple speakers speaking simultaneously; also telephonic failure.

## PARTICIPANTS

(alphabetically)

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# **Committee Members**

	committee members
1	
2	Occupational Physicians with Experience in Treating WTC Rescue and Recovery
3	Workers:
4	
5	Steven Markowitz, M.D.
6	Professor of Environmental Sciences and Director of The Center for The Biology of Natural
7	Systems at Queens College, City University of New York, New York City.
8	William Rom, M.D., M.P.H.
9	Professor of Medicine and Environmental Medicine, New York University School of Medicine
10	Director, Division of Pulmonary and Critical Care Medicine, School of Medicine, New York
11	University, New York City.
12	
13	Occupational Physicians:
14	
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 Department of Public
18	Health, San Francisco.
19	Virginia Weaver, M.D., M.P.H.
20	Director, Occupational and Environmental Medicine Residency, Bloomberg School of Public
21	Health, Johns Hopkins University, Baltimore.
22	
23	Physician with Pulmonary Medicine Expertise:
24	Thomas K. Aldrich, M.D.
25	Professor of Medicine and Director of The Pulmonary Training Program, Albert Einstein College
26	of Medicine, Yeshiva University, New York City.
27	Representatives of WTC Responders:
28	
29	Stephen Cassidy
30	President, Uniformed Firefighters Association of Greater New York, Local 94 I.A.F.F. AFL-CIO

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1	Valerie Dabas
2	Human Resources Analyst, Patrolmen's Benevolent Association of the City of New York, Inc.,
3	New York City.
4	Guillermina Mejia, M.P.H
5	Certified Health Education Specialist, Principal Program Coordinator, Safety and Health
6	Department, American Federation of State, County, and Municipal Employees, District Council
7	37, New York City.
8 9 10	Representative of Certified-Eligible WTC Survivors:
11	Kimberly Flynn,
12	Co-Founder, Director, 9/11 Environmental Action
13	Catherine McVay Hughes
14	Vice Chairman, Community Board 1 World Trade Center Redevelopment Committee, Lower
15	Manhattan World Trade Center Redevelopment, New York City.
16	Susan Sidel, J.D.
17	Resident of New York City and volunteer WTC responder.
18 19 20 21	<i>Industrial Hygienist:</i> John Dement, Ph.D. Professor, Community and Family Medicine, Duke University Medical School, Durham, N.C.
22	
23	<b>Toxicologist:</b>
24	Julia Quint, Ph.D.
25	Research Scientist Supervisor II and Chief, Hazard Evaluation System and Information Service
26	(HESIS), Occupational Health Branch, California Department of Public Health (retired), Oakland.
27	<b>Epidemiologist:</b>
28	Elizabeth Ward, Ph.D. (Advisory Committee Chair-Person)
29	National Vice-President for Intramural Research, American Cancer Society, Atlanta.
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1	Mental Health Professional:
2	Carol S. North, M.D. M.P.E.
3	Professor, Department of Psychiatry, University of Texas Southwestern Medical Center, Dallas.
4	
5	Environmental Health Specialists:
6	Glenn Talaska, Ph.D.
7	Certified Industrial Hygienist, Professor, Department of Environmental Health, University of
8	Cincinnati, Cincinnati.
9	Leonardo Trasande, M.D., M.P.P.
10	Associate Professor in Pediatrics, Environmental Medicine and Health Policy, New York
11	University; Associate Attending in Pediatrics, Bellevue Hospital Center, New York City.
12	
13	
14	Designated Federal Official:
15	Paul J. Middendorf, Ph.D., CIH
16	Senior Scientist
17	CDC/NIOSH/Office of the Director
18	Cincinnati, Ohio
19	
20	

1	P R O C E E D I N G S
2	(9:35 a.m.)
3	
4	WELCOME AND INTRODUCTION
5	<b>DR. MIDDENDORF</b> : Well, good morning everybody, Happy Valentine's Day.
6	Welcome to the meeting of the World Trade Center Health Program's Scientific/
7	Technical Advisory Committee.
8	Hopefully everyone has weathered the effects of Winter Storm Pax that's
9	just gone through. It certainly caused us a few tense moments in the lead-up to the
10	meeting. I am Paul Middendorf and I'm the designated federal official for the
11	committee. I do want to extend a warm welcome to each of the committee
12	members and the members of the public who are on the phone with us. We very
13	much appreciate your interest in these proceedings.
14	Just to start out, I think it's very important for us to remember why we're
15	here and set the appropriate tone for the meeting, so let's just spend a few
16	moments in silence to remember those who were killed in the attacks on 9/11 and
17	also those responders and survivors who have since died because of those attacks.
18	(Moment of silence.)
19	<b>DR. MIDDENDORF</b> : Thank you. There are a number of administrative issues
20	to deal with on the front of our meeting so let's work through those initially. First I
21	need to point out that we announced openings for five seats on the STAC last
22	summer. Final selections for those positions have not been made yet so five of our
23	members have had their tenure on the committee extended an additional six
24	months through March 30 <sup>th</sup> . We anticipate announcing the selections for those
25	positions in the very near future.
26	We have also begun the process of soliciting nominations for six different
27	seats on the committee, and those are scheduled to open on September 30 <sup>th</sup> of this
28	year. If you're interested in nominating someone, including yourself, please visit the
29	committee's website to find the information on how to nominate someone. For
30	those who are logged into the web portion of this conference, the committee's web
31	address is on the screen.
32	For those of you signed up to provide public comments, those are scheduled
33	to begin at 11:30 this morning, and that's Eastern Standard Time. Copies of the
34	public comments that we received by yesterday have been provided to each of the
35	committee members and they will also be posted in NIOSH's docket number 248-A,
36	which is also available through the committee's website.
37	Let's go ahead and do a quick roll call. For our roll call, I'll call out the name
38	of each member and ask you to let me know that you're on the line. I'll ask you to
39	state whether or not there have been any changes in your employment or interest

1	that would affect your conflict of interest. If for some reason a member needs to
2	leave the call, please let me know when you leave and when you return so we can
3	be sure that we have a quorum for the meeting. For the STAC a quorum is, is ten
4	members. And also I'll repeat the roll call after each of the breaks and after the
5	lunch period.
6	So, Tom Aldrich?
7	<b>DR. ALDRICH:</b> and I have received a grant from the NIOSH program but I
8	don't believe that affects my conflict of interest situation.
9	<b>DR. MIDDENDORF</b> : Okay. And Steven Cassidy and Valerie Dabas will not be
10	participating in the meeting.
11	John Dement? Okay, I don't hear John on the line. Kimberly Flynn?
12	Kimberly announced herself earlier. Kimberly, are you there?
13	MS. FLYNN: Hello? Paul?
14	DR. MIDDENDORF: Yes?
15	<b>MS. FLYNN:</b> Hi. Sorry, I couldn't get my mute off. My engagements have
16	not changed.
17	DR. MIDDENDORF: Okay. Bob Harrison?
18	<b>DR. HARRISON:</b> I'm here and I don't have any conflicts or issues.
19	DR. MIDDENDORF: Okay. Catherine Hughes?
20	MS. HUGHES: Nothing has changed.
21	DR. MIDDENDORF: Okay. Steve Markowitz.
22	<b>DR. MARKOWITZ:</b> Present. I don't think it's a conflict but we were a
23	satellite a site for Wisnivesky's asthma research project funded by NIOSH.
24	<b>DR. MIDDENDORF</b> : Okay. Is that new or different?
25	<b>DR. MARKOWITZ:</b> No, no. It's been going on for at least a year or so.
26	<b>DR. MIDDENDORF</b> : Okay. So it's part of the evaluation for your conflict of
27	interest already.
28	DR. MARKOWITZ: Correct.
29	DR. MIDDENDORF: Okay. Guille Mejia?
30	MS. MEJIA: I still have the same employer; however, I am now the director
31	of the safety and health department and I'm also the PR for the cooperative
32	agreement.
33	DR. MIDDENDORF: Okay. And we've addressed your conflict of interest
34	issues already.
35	MS. MEJIA: Yes.
36	DR. MIDDENDORF: Okay. Carol North?
37	<b>DR. NORTH:</b> I'm here. I don't think I have any change.
38	DR. MIDDENDORF: Okay. Julia Quint?
39	DR. QUINT: I'm here. My status hasn't changed.

		10
1	DR. MIDDENDORF: Okay. Bill Rom?	
2	<b>DR. ROM:</b> Present. No changes.	
3	DR. MIDDENDORF: Okay. Susan Sidel.	
4	MS. SIDEL: I'm here. Can you hear me?	
5	<b>DR. MIDDENDORF</b> : Yes, we can hear you.	
6	MS. SIDEL: Okay, all good.	
7	DR. MIDDENDORF: Okay. Glenn Talaska?	
8	DR. TALASKA: Present. No changes.	
9	<b>DR. MIDDENDORF</b> : Okay. Leo Trasande? I believe he'll be joining us this	
10	afternoon. He said he wouldn't be available this morning. Elizabeth Ward?	
11	<b>DR. WARD:</b> I'm here. No changes.	
12	DR. MIDDENDORF: Okay. Virginia Weaver?	
13	<b>DR. WEAVER:</b> Present and no changes.	
14	DR. MIDDENDORF: Okay. I guess there's 13 members who are present. I'll	
15	ask John Dement, have you joined us?	
16	DR. DEMENT: Yes, Paul, I'm on the line.	
17	DR. MIDDENDORF: Okay.	
18	<b>DR. DEMENT:</b> There are no changes.	
19	<b>DR. MIDDENDORF</b> : Okay, great. Okay, so that's 14 members; we do have a	
20	quorum.	
21	The focus of this meeting is on research needs for the World Trade Center	
22	Health Program. All the materials for this meeting including copies of our agenda	
23	and presentations can be got on the committee's website and, for those of you who	
24	are logged into the web portion of our meeting, the materials can also be	
25	downloaded by clicking on the right icon at the top of the screen that looks like	
26	three little pieces of paper. So if you click on that, you should be able to get to the	
27	materials and download from there, if you don't get them from the website.	
28	Because the focus of this meeting is on the research needs of the program,	
29	and some of our members are researchers who potentially have interest in doing	
30	research on World Trade Center-related matters, it is important that we manage the	
31	potential for conflict of interest. So for each of those members, I believe, have been	
32	counseled on the limits of their participation. If I happen to see that someone has	
33	strayed into areas that are of potential conflict of interest for them, I will point out	
34	to them point that out to them, and then ask them to refrain from further	
35	discussion in that particular area.	
36	An issue we need to address for committee members is how to make sure	
37	each of you has the opportunity to voice your ideas. Obviously we can't see hands	
38	raised or name cards turned on end so we need to work out a way to be sure that	
39	each of you has the opportunity to contribute to the meeting. So after a speaker is	

1	finished and before the next speaker has been identified, if you would state that you
2	have comments to make, Liz and I will both keep a sequential list of those who
3	identified that they want to make comments, and then we'll recognize you in turn
4	so you can have the floor.
5	I also want to remind you that you really do need to identify yourself before
6	speaking so our transcriptionist can accurately attribute your contributions to the
7	meeting.
8	The last things I need to review before turning this over to our Chair, Dr. Liz
9	Ward, are the motions and voting procedures. When a member of the committee is
10	developing a motion, I will type it so it's visible on the screen and each of you should
11	be able to see it. When the Chair calls for a vote, I will have to do a roll call vote and
12	will ask each of you in turn to say yes, meaning you are voting for the motion that
13	has been put to the committee, or no, meaning you are voting against the motion
14	that has been put to the committee, or abstain, meaning that you are not voting on
15	the motion. If someone has been recused for a specific motion, I'll note that also.
16	According to our bylaws a majority of those voting determines the outcome.
17	So with that, I will turn it over to Dr. Ward.
18	<b>DR. WARD:</b> Well, I will just add my welcome to the committee members,
19	presenters and members of the public who are joining us today. And also thank
20	Paul and other CDC staff who have organized and supported this meeting.
21	I think we have a very full agenda, had a little bit of a late start, so I'd like to
22	move directly to Dr. Howard for his charge to the committee.
23	
24	CHARGE TO THE COMMITTEE
25	<b>DR. HOWARD:</b> Thank you, Liz. Good morning, advisory committee
26	members and good morning to responders, survivors and members of the public.
27	Welcome to the fourth meeting of the World Trade Center Health Program
28	Scientific/Technical Advisory Committee. I especially want to thank each committee
29	member for serving on the advisory committee. Your time and your advice to the
30	Health Program are greatly appreciated.
31	The advisory committee has an important role to play in the World Trade
32	Center Health Program. The Zadroga 9/11 Health and Compensation Act of 2010
33	specifies three areas of contributions of the advisory committee to the program.
34 25	First, the Act requires that the administrator consult with the advisory committee
35 36	with regard to determining eligibility criteria for responder and survivor
36 37	membership in the program. Second, the Act provides that the administrator may
37	seek a recommendation from the advisory committee regarding whether a particular health condition should be added to the list of World Trade
30 39	Center-related health conditions. And third, the Act requires the administrator to
פנ	Center-related realth conditions. And third, the Act requires the administrator to

1 consult with the advisory committee with regard to identifying researc	ch needs for
2 the program.	ch needs for
3 It is this third area, consulting the advisory committee with reg	gard to
4 identifying the research needs of the World Trade Center Health Progr	-
5 asked you to meet today.	
6 Each year since 2011, NIOSH has solicited applications for scient	ntifically
7 rigorous research studies to help answer critical questions about the p	•
8 mental health conditions related to the September 2001 terrorist attac	
9 2011 through 2013, 79 research proposals were reviewed, and 32 percent	
10 or 25 meritorious projects, including the renewal of the World Trade C	
11 Registry, have been funded.	
12 The charge that I would respectfully give to the advisory comm	nittee today is
13 to: One, identify critical research gaps relative to our understanding o	-
14 of exposure to airborne toxins, any other hazard or any other adverse	
15 resulting from the September 11, 2001 terrorist attacks; two, identify (	critical
16 research knowledge gaps relative to the accurate diagnosis of World T	rade
17 Center-related health conditions; three, identify critical research know	vledge gaps
18 relative to the effective treatment of World Trade Center-related heal	th conditions;
19 and most importantly, four, provide advice on the priority ordering of	the critical
20 research needs identified by the advisory committee.	
21 Thank you again for participating in the meeting today. I wish	you a very
22 productive meeting. Thank you for attending.	
23 <b>DR. WARD:</b> So I think we'll move directly to the next presenta	ation by Jessica
24Bilics, who will give us a brief update on the World Trade Center Health	h Program.
25	
26 BRIEF UPDATE ON WTC HEALTH PROGRAM	
27 <b>MS. BILICS:</b> Hello. This is Jessica Bilics. This is the World Trade	le Center
28 Health Program policies, staff and intergovernmental affairs.	
29 It's been almost two years since the STAC last convened in Ma	
30 these two years, the World Trade Center Health Program has had man	
31 Some of these changes include the addition of more than 50 types of -	-
32 of cancer, the addition of Pentagon, Shanksville, Shanksville, Pennsy	
33 responders to our membership and the completion of a variety of polic	
34 procedures to help program providers determine World Trade Center-	
35 medically associated health conditions as well as policies and procedur	
36 administrative requirements related to recoupment or reimbursement	ts from
37 workers' compensation or private health insurance.	6
38 I will not spend the limited time we have today on the details of	
39 policies and procedures or the regulatory activities of the program. Ho	owever, l

encourage everyone to spend some time on our website, specifically the policies and procedures page and the laws and regulations page, to learn more. You can access the website at: www.cdc.gov/wtc.

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What I'd like to spend my time doing this morning is going over some data on the World Trade Center Health Program that may be of interest to you and be deliberated, as Dr. Howard requested, on research priorities for the future of the program. The data I will cover should be on the screen if you are participating via Live Meeting and are also available in a two-page document titled The World Trade Center Program Updates on the program's advisory committee web page.

The first four tables provide break-outs of the program's more than 66,500 members by some basic demographics. The first table, table 1, breaks down the program's membership by four major member types: FDNY responders, non-FDNY responders, survivors and Pentagon/Shanksville responders. As you can see about two-thirds or 64 percent of the program's membership is made up of non-FDNY responders who responded to the disaster in New York City. Twenty-five percent are FDNY responders; 11 percent are survivors from New York City disaster area; and less than one percent are responders from the Pentagon and Shanksville, Pennsylvania sites.

Table 2 breaks down the program's membership by member types as well as gender. The program's members are about 83 percent male, 16 percent female and 1 percent unknown; however, the gender distribution varies within the member type. The three responder categories, the responders, FDNY and Pentagon/Shanksville in the table, all have about 85 percent or more males, whereas the survivor population is split almost evenly between males and females.

Table 3 provides the membership by member type as well as age categories. Now more than 12 years out from 9/11, about 70 percent of the program's members are between 40 and 59 years old. Some of you may have noticed and been surprised by the younger members in the program, particularly those in the responder and FDNY categories. Table 3 reflects the statutory eligibility criteria which includes not only traditional first responders but volunteers who may have been young people providing support services at the site as well as family members of FDNY.

Table 4 breaks down the member -- the program's membership by the top ten places of residence. Not surprisingly, 87 percent of members live in either New York state or New Jersey. There are also significant numbers of members in Florida, Pennsylvania, North Carolina and California. Most of the members living outside the New York metropolitan area are served by the program's nation-wide provider network.

As you all know, the World Trade Center Health Program provides

	1
1	treatment for certified members as a variety for a variety of health conditions.
2	The major categories of health conditions include obstructive airways diseases such
3	as asthma, reactive airway dysfunction syndrome, World Trade Center-related COPD
4	and chronic cough, upper respiratory diseases, upper airway such as upper airway
5	hyperactivity, rhinosinusitis, nasal pharyngitis and laryngitis as well as interstitial
6	lung diseases, gastroesophageal reflux disease, certain types of cancers, mental
7	health conditions and musculoskeletal disorders.
8	Tables 5 and 6 show the number of certification categories per member.
9	About 36,000, or 54 percent of the members, are not certified for any category of
10	health conditions, which leaves 46 percent, or more than 30,000 members, certified
11	for at least one health condition category. More than 30 percent of members are
12	certified for three or more health condition categories.
13	Tables 7 and 8 list the top ten health conditions certified for all conditions
14	and then for cancer conditions only. The top three certified conditions of all health
15	conditions are GERD, with more than 2,000 members certified, sinusitis, with more
16	than 1,500 members certified, and rhinitis with almost 15 members 1,500
17	members certified as well.
18	Those top ten health conditions I just stated, the top condition is GERD,
19	three are cancer conditions, three are mental health conditions, two are upper
20	respiratory diseases and one is an obstructive airways disease.
21	Table 8 displays the top ten cancers certified within the program. As of mid-
22	January, the World Trade Center Health Program had certified 1,930 cancers. Of
23	this total, 320, or 17 percent, are for prostate cancer, and just over 300, or
24	16 percent, are for non-melanoma skin cancer. The top ten certified cancers make
25	up 80 percent of all cancers certified within the program.
26	That covers the eight tables provided in the document that I wanted to
27	provide to the advisory committee for their discussion today. I'd be happy to try to
28	answer any questions that any members may have.
29	<b>MS. HUGHES:</b> Yes, this is Catherine Hughes. Is this going to be posted on
30	the website, this table?
31	<b>MS. BILICS:</b> Yes, it is a document that contains all eight tables and it is
32	available on the advisory committee web page.
33	<b>MS. HUGHES:</b> So is it also available to the public is what I'm asking?
34	<b>MS. BILICS:</b> Yes. It's already posted on the web page in the STAC's advisory.
35	MS. HUGHES: Great, thank you.
36	<b>MS. BILICS:</b> And it's titled World Trade Center Program Update.
37	<b>DR. HARRISON:</b> This is Bob Harrison, thank you. Do you have a breakdown
38	on the types of leukemia?
39	<b>MS. BILICS:</b> I don't have them by count. The regulation like I'm not sure I

		15
1	have the requisitions in front of me. The requisitions do break down, they include	
1	have the regulations in front of me. The regulations do break down they include	
2	the tables of these cancers. I can probably find it.	
3	<b>DR. HARRISON:</b> Yeah, I'm just thinking of, you know, how many were AML,	
4 5	ALL, CML or	
5	<b>MS. BILICS:</b> I don't have a specific breakdown for that level of detail right here.	
7	DR. HARRISON: Okay.	
8	<b>MS. BILICS:</b> We can maybe get it up on the website later.	
9	DR. HARRISON: Okay, thanks.	
10	<b>DR. MARKOWITZ:</b> Jessica, this is Steven Markowitz. I'm looking at the	
11	Power the transcript that was sent and looking through the tables that were	
12	numbered 1 through 8, and I can't see the reference to the chronic obstructive	
13	pulmonary disease that you mentioned.	
14	<b>MS. BILICS:</b> I was just saying that of the covered different major categories	
15	of health conditions included that was in the statute, and included is in the	
16	obstructive airways diseases category is World Trade Center-exacerbated COPD as	
17	an eligible condition for coverage.	
18	<b>DR. MARKOWITZ:</b> So in table 7, was the top was is the top ten covered	
19	health conditions	
20	MS. BILICS: Yes.	
21	<b>DR. MARKOWITZ:</b> which starts with GERD and then goes to sinusitis and	
22	then rhinitis, right?	
23	MS. BILICS: Yes.	
24	DR. MARKOWITZ: Okay. So I don't know what total the member count is	
25	beyond the top ten but, you know, in that table it looks like, you know, 8,000 total	
26	or so. But if you go to table 5, it looks like there are some 30,000 members who	
27	have at least one covered condition or if I'm reading that correctly, they're certified	
28	for at least one covered condition.	
29	MS. BILICS: Correct.	
30	DR. MARKOWITZ: So I don't quite understand how it could be that 30,000	
31	members have a covered condition and we're looking at the top ten and the top ten	
32	seem to only include about 8,000 members.	
33	MS. BILICS: I believe what's happening there is the 7 and 8 tables are	
34	actually those with claims since the program started so that's the ones that are in	
35	treatment. I believe that's the data.	
36	<b>DR. MARKOWITZ:</b> Okay. So okay. Table 5 is not necessarily in treatment;	
37	it's certified.	
38	<b>MS. BILICS:</b> No, it's for the whole program certified, yeah.	
39	DR. MARKOWITZ: Great, thank you.	

1 MS. FLYNN: Jessica, this is Kimberly. Thank you so much for this 2 information. A follow-up to Dr. Markowitz's question. Could you please clarify that 3 the 35,966 members who are not -- who have no certifications are all in the 4 responder monitoring program and that the survivor program is different? 5 MS. BILICS: Yeah, so the difference between the two categories, the б responder and the survivor committees -- or committees -- populations, are that the 7 responders are eligible to be in the program regardless of whether or not they have 8 a health condition related to the World Trade Center. They are allowed to have 9 monitoring without being sick from any condition; whereas the survivor population 10 statutorily has a requirement to -- that the members have to be -- they have to have 11 a symptom initially to be screened to be determined if they are eligible, the certified 12 eligible survivors. So in order to be in the program they have to be sick from one of 13 the conditions. 14 MS. FLYNN: Thank you. 15 MS. MEJIA: Jessica, this is Guille Mejia. Can you tell me, do you have 16 numbers in terms of the pending cases that need to be certified, how many are still 17 pending that would add to these numbers? 18 MS. BILICS: I don't have those numbers. I don't know if I -- anyone on our 19 medical team -- I'm looking at the pending cases for certification -- any idea about 20 how many they are? We can find out. 21 MS. MEJIA: Okay, and when was the -- what's the date on these tables, in 2.2 terms -- do you have a cut-off date for these numbers as of when? 23 **MS. BILICS:** Tables 1 through 4 are through the 11<sup>th</sup> of February and tables 24 5 through 8 are all through mid-January. I believe the date was the 8<sup>th</sup> of January. 25 MS. MEJIA: Okay, thank you. 26 **DR. WARD:** Before we close, will you and members of the medical program 27 staff be available during our later discussions in the event that there are some 28 questions that come up from committee members about these diagnoses or the --29 for the medical program? 30 MS. BILICS: Yes, there will be some of us here at any time and we can grab 31 folks from down the hall. 32 DR. WARD: Okay, great. 33 DR. HARRISON: This is Bob Harrison. I don't know whether we'll cover this 34 later but one of the charges to the committee is the terms of research on effective 35 treatment, and will we be covering that later or -- I guess I'm just trying to get a 36 sense of how the covered conditions and suggest anything about how people have 37 been treated or, you know, the numbers who remain in treatment, any questions or 38 issues that have come up around treatment. 39 MS. BILICS: There is a presentation from the clinical centers by Dr. Laura

	1
1	Crowley later that will speak, probably, to some of your questions.
2	DR. HARRISON: Okay. Great, thanks.
3	<b>DR. WARD:</b> Okay. So I think we should move on and to the presentation by
4	Dr. Robison and Kubale on Overview of World Trade Center Health Research.
т 5	Di. Robison and Rubale on Overview of Wohd Trade Center Health Research.
6	OVERVIEW OF WTC HEALTH RESEARCH
7	DR. KUBALE: Good morning, this is Travis Kubale and I'm the program
8	official from the Office of Extramural Programs and assigned to the World Trade
9	Center Health Program, and I'm here with Dr. Allen Robison who is the director of
10	OEP. And Dr. Middendorf, as you know, has asked us to provide the committee with
11	a brief overview describing the World Trade Center Health Program research
12	portfolio, as Dr. Howard indicated, that was initiated in 2011.
13	Dr. Robison and I will describe the current research solicitation
14	announcement and how STAC recommendations were incorporated. We will
15	discuss the number of projects funded, and because this is a new and developing
16	portfolio, we'll talk a bit about the publication status and estimated completion
17	schedule. We will also briefly describe where the projects fit broadly within the
18	primary research outcome and population focus areas that were discussed in the
19	2011 STAC recommendation report. And finally we'll talk about where information
20	concerning the current research, including the principal investigator contact
21	information, project descriptions and results, can be obtained.
22	So Paul, the if we move to the third slide, Allen will talk a little bit about
23	the funding announcement. Allen?
24	DR. ROBISON: Thank you, Travis. Can you hear me?
25	DR. KUBALE: Yes.
26	DR. ROBISON: Good morning, everyone. I just want to talk briefly about
27	the World Trade Center Health Program research funding announcement that we
28	developed in late 2011 and published in 2012.
29	Our first application was published in March 2012, and we received our first
30	round of applications in May of 2012. As Travis mentioned briefly, we incorporated
31	input from a wide range of experts including the Scientific/Technical Advisory
32	Committee, the World Trade Center Health Program and others. That input is
33	reflected in the announcement by identifying major areas of interest but not
34	limiting the announcement to those six major areas of interest that are listed. We
35	also identified relevant diseases or conditions but we did not limit applications to
36	those nine or so diseases or conditions that are listed. We provided population
37	focus, which is which by that, I mean we specifically talked about responder
38	populations and community members or survivor populations.
39	We also listed contacts for the three data centers. And the reason for that

1	was to help stimulate collaboration and encourage collaboration by the applicants
2	as they submitted their as they prepared their applications.
3	And then also in the funding opportunity announcement we provided
4	guidance to reviewers on disaster science. And the way that's worded in the
5	announcement, it's a little section called limitations of currently available data. We
6	just advise the reviewers to be cognizant of the fact that research in this area is a
7	type of research where there may not be a lot of pre-event information, so we
8	equate that to the area of the the area that we call disaster science research.
9	Our goals in preparing the announcement were to stimulate meritorious, or
10	as Dr. Howard said, scientifically rigorous investigator-initiated applications for
11	research relevant to the World Trade Center Health Program, but we wanted to
12	encourage collaboration, and we still pursue that those two goals with each round
13	of applications that we receive.
14	We think it's been an effective and productive funding opportunity
15	announcement based on the number and types the number and types of projects
16	that have been funded.
17	And then before I close and turn it back over to Travis, I just want to say
18	thank you to those committee members that are on the call, attending this meeting,
19	who provided input and others who provided input. And I want to particularly
20	thank the grantees on the phone and thank you for the great work that you're
21	doing. So with that, I'll turn it back over to Travis. Thank you all.
22	<b>DR. KUBALE:</b> Thank you, Allen. The next slide we want to go to, the current
23	research portfolio projects, as has been stated, is the result of solicitations that
24	were conducted in 2011, -12 and -13. A 2014 solicitation was just completed, and
25	the submitted projects are scheduled for scientific and technical review this spring.
26	A final solicitation is planned for '15, and that will be the last solicitation until the
27	program is reauthorized. Currently, as has been stated, the portfolio has 25 projects
28	including the World Trade Center Health Registry, which has multiple projects and
29	focus areas, and will be discussed in detail by registry staff in the next presentation.
30	In 2011 eight projects were funded, each with a three-year duration. Now,
31	four of these projects have published initial results and the other four are expected
32	to have results published late in the current calendar year. There are currently a
33	total of seven publications for those four projects.
34	In 2012, 11 projects were funded, and like I said, the renewal of the World
35	Trade Center Health Registry was included. Five of the 11 projects have two-year
36	duration periods and the initial results we expect possibly late this calendar year.
37	Now, as a note, since the renewal in 2012, the World Trade Center registry
38	has produced 15 research publications. These published studies focus on cancer,
39	mental health and physical comorbidity, respiratory effects among World Trade

1       Center-exposed children, 9/11 healthcare utilization, behavioral and structural         2       barriers to evacuation and cardiovascular disease hospitalizations related to 9/11.         3       In 2013, six projects were funded. Three of the projects have two-year         4       duration periods and three are for three years. We are expecting and hoping that         5       two of the two-year projects may have early results in early 2015.         6       The next silde is a listing of the eight studies by focus area funded in 2011.         7       Three mental health studies were funded, and each of these studies has a post-traumatic stress disorder emphasis. Dr. Adriana Feder's study identifies and         8       traumatic stress disorder emphasis. Dr. Adriana feder's study identifies and         9       describes the distinct course of World Trade Center-related PTSD symptoms over         10       time, and initial findings are published in two articles.         11       Dr. Evelyn Bromet has two studies, one examining post-traumatic stress         12       disorder and physical illness comorbidity, and this study will also include a         13       comparison of PTSD treatment approaches among clinics. Dr. Bromet is also         14       implementing and evaluating a smoking cessation intervention program for         15       individuals diagnosed with post-traumatic stress disorders.         16       As has been well publicized, respirator		
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1 airway narrowing among firefighters. The study will also assess the effectiveness of 2 anti-asthma medications at resolving bronchial hyper-reactivity and a decline in lung 3 function. 4 Dr. Charlie Hall is investigating the incidence of new obstructive airway 5 disease cases over the first ten years following World Trade Center exposure, also б among firefighters. Dr. Rafael de la Hoz is investigating how best to identify early 7 indications of lung disease among World Trade Center's responders -- responders, 8 workers and volunteers. 9 Dr. Sunderram is examining the role of nasal pathology or damage in World 10 Trade Center responders and in the development of how it's related to the 11 development of obstructive sleep apnea. He's also looking at the impact of the 12 nasal pathology on the use of continuous positive airway pressure machines or 13 CPAP machines. 14 Dr. Wisnivesky is studying the relationship between asthma morbidity and 15 upper airway conditions among rescue and recovery workers. And Dr. Ben Luft is 16 working to explain the potential mechanisms underlying post-traumatic stress 17 disorder and respiratory disease comorbidity, also among responders. 18 Three of the six studies, Dr. Aldrich, Dr. Hall and Dr. Luft, are two-year 19 studies and early results are possible by late in the calendar year. Four of these six 20 studies do include females. 21 The next slide is a listing of the remaining five studies conducted in 2012. As 2.2 you can see, there are three mental health studies. Dr. Adriana Feder is assessing 23 the vulnerability to post-traumatic stress disorder among police and responders. 24 Dr. Christina Hoven is assessing the prevalence of mental health disorders and high 25 risk behaviors among World Trade Center youth exposed to 9/11. And she also has 26 a second study, also of World Trade Center youth to assess the mental health 27 service need, use and barriers to service. That is a two-year study and results are 28 possible late this calendar year. 29 In '12, we also added two studies that have a surveillance or a 30 multi-outcome focus. The registry, which we have talked about, was one. The 31 second is a study by Dr. Kim which will describe the overall physical, mental and 32 socioeconomic impact of the World Trade Center disaster on responders. All of 33 these studies, all of these five studies, do include females. 34 The next slide is a listing of the six studies that were funded in 2013. Two of 35 these studies have what we've labeled as a biomarker development focus. 36 Dr. Emanuela Taioli is working to generate data on biomarkers of prostate cancer 37 aggressiveness. Her study population is rescue and recovery workers. 38 And Dr. Michael Marmor is working on methods to determine if World 39 Trade Center-related trace elements can be identified in individual autopsy tissues.

1	It's hoped that this work will provide a foundation for future development of
2	biomarkers indicative of cumulative World Trade Center exposure.
3	The remaining four studies that were funded in 2013 each have a distinct
4	focus area. Dr. Leo Trasande is studying the physical health effects among
5	adolescents who had early life exposure to the World Trade Center disaster.
6	Dr. Joan Reibman is working to identify the mechanisms most responsible for
7	uncontrolled lower respiratory disease among survivors and responders. And the
8	study will also examine best treatment methods for patients with persistent lower
9	respiratory symptoms.
10	Dr. Mayris Webber is working to calculate the incidence of selected
11	systemic autoimmune diseases in firefighters and emergency medical service
12	workers. And Dr. Adam Gonzalez is comparing two methods of mind-body
13	treatment for responders with PTSD, post-traumatic stress disorders, and lower
14	respiratory disease.
15	All but one of these six studies include females. Three of them, Drs. Taioli,
16	Marmor and Webber are two-year studies with initial results expected in mid-2015.
17	The next slide is simply a summary of the study focus areas. There are just a
18	couple of things that I want to call your attention to. There are currently three
19	studies in the portfolio that focus on World Trade Center youth. Two are mental
20	health and one, Dr. Trasande's, deals with physical health issues.
21	The next slide gives a breakdown in the portfolio of the studies. Eighteen of
22	the 25 focus primarily on responders; three of the 25, which include World Trade
23	Center youth that I just mentioned, are survivors only; and four of the 25 include
24	populations that have both responders and survivors.
25	And the next slide, I want to just point out that information about the
26	research portfolio of projects can be accessed through the World Trade Center
27	program website. On that site we will have updated, probably in the next several
28	days, information about contact information for each of the PIs. We currently have
29	study descriptions that are available on the website, if for people to see, and
30	that's publicly available.
31	We will also be adding into a database research articles as they are
32	published, and that will be searchable as well. I also wanted to point out that we
33	have two research grantee meetings each year. In the '14 meetings, we will begin
34	discussions, as I said, on preliminary results. The researchers will also begin
35	organizing findings and identifying research gaps as well and providing that
36	information to the program. The characterization or the categorization scheme that
37	I talked about will also get a look at as well and I would imagine that there will be
38	some modification there, too.
39	Scientific publications, like I said, there are currently seven publications that

are available from projects awarded in 2011. And currently the PIs will be presenting at several conferences in 2014, they include the American Thoracic Society Conference, the American -- the World Congress of Epidemiology, the American Heart Association and the American Association of Cancer Research.

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And finally I just want to thank, from the staff and the NIOSH Office of Extramural Programs, the STAC committee members and also the very hard work that is being performed by the portfolio researchers. Thank you very much.

**DR. WARD:** Thank you for that informative presentation. We have a few minutes for questions.

**DR. MARKOWITZ:** This is Steven Markowitz; I have a question. I hope it's not an unfair question, but in Dr. Howard's charge to the committee, he listed several areas for us to look at. One was understanding the effects of exposure, secondly is research gaps on accurate diagnosis, a third is effective treatment, and I'm just wondering whether he's broken these projects down at all by those three factors, the extent to which they address more or less those three factors?

**DR. KUBALE:** You know, Dr. Markowitz, we have some information about, you know, how these projects would relate to that. I, you know, I would have to probably get back to you on some of the specifics of that. And, you know, maybe some of the committee members, Dr. Aldrich or Dr. Trasande would, you know, want to weigh in on that as well.

**DR. MARKOWITZ:** Actually, you know, let me just rephrase it. Do you think any of those three areas, the ideology of the diagnosis of treatment, it seemed when you reviewed the projects that they seemed to be covered, more or less, in the various projects, treatment, for instance, you mentioned a number of times. And from -- is it your impression that any of those three areas are perhaps under -- are underserved in terms of the research, from your point of view?

**DR. KUBALE:** You know, I think the way that I would, you know, probably best answer that right now is that I think -- I think that there are several of the projects that we tried to point out that do have treatment relevance. I think that, because of the relative newness of the portfolio, it's hard for me to comment, you know, probably further on where the additional gaps would be, you know, at this particular time.

DR. MARKOWITZ: Okay. Thank you.

DR. KUBALE: I'm sorry.

**DR. MARKOWITZ:** It's not a problem.

36DR. HARRISON: This is Bob Harrison. Could you just, Allen, just re-37emphasize the current funding years for the projects that are already funded, when38they're expected to end, when the new announcement goes out, and then when39those would be expected to end? I'm just, just trying to get an overall perspective

		23
1	on the time frame of the surrent funding on the projects	
1	on the time frame of the current funding on the projects.	
2	DR. KUBALE: Um I'm sorry.	
3	<b>DR. ROBISON:</b> No, go ahead, Travis, that's fine.	
4 r	<b>DR. KUBALE:</b> Dr. Harris (sic), the projects that were funded in '13 or I'm	
5	sorry, in '11, there were eight of those, and they will end officially later this year.	
6 7	The projects that were funded in '12, some will, the two-year projects, will end in	
8	at the end of '14, and the four-year projects will essentially be funded through the end of '15.	
o 9	The six projects that were funded in '13, two like I said three of the	
9 10	two-year projects let's see, it will be FY '13 and '14, and the three-year projects	
11	will go into '15.	
12	<b>DR. HARRISON:</b> The current projects that are funded end in 2015.	
13	DR. KUBALE: Yes.	
14	<b>DR. HARRISON:</b> And the new announcement that we're discussing in terms	
15	of recharge of priorities, that goes out this year and that those would end in	
16	<b>DR. KUBALE:</b> I'm sorry, I understand your question. That's a one those	
17	will be the '15 call, if there is a call, which we're assuming there will be, will be for	
18	one-year projects.	
19	DR. HARRISON: Okay, for one year.	
20	DR. KUBALE: Yes.	
21	DR. HARRISON: And those would start in	
22	<b>DR. KUBALE:</b> The money would be allocated in '15. They would go into	
23	'16 but the money would be authorized and allocated for '15.	
24	<b>DR. HARRISON:</b> Okay, gotcha. Thank you very much. That helps me 'cause	
25	I just wanted to and that would be, then, in terms of the from 2001, those	
26	would be research projects that would then be out potentially 15 years, just in	
27	terms of any kind of longitudinal evaluation or	
28	<b>DR. KUBALE:</b> Yes, you're correct. That's correct.	
29	<b>DR. HARRISON:</b> We'd be talking 15 years.	
30	<b>DR. KUBALE:</b> That's correct.	
31	<b>DR. HARRISON:</b> Since 2001, okay. Thank you.	
32	DR. ROBISON: And Bob, just to clarify, we've had one research funding	
33	announcement we've modified in each year to decrease the number of years, to line	
34	up with the projects. And then currently the next receipt date will be for one-year	
35	projects.	
36	And then as we look ahead to another research funding opportunity	
37	announcement, we will incorporate input that we receive from the Scientific	
38	Advisory Committee members. We'll use information that we glean from the	
39	current projects that are funded, so we're, we're looking we're looking ahead to	

1	that. Thanks.
2	<b>DR. HARRISON:</b> So can I clarify that, just one quick question? So then are
3	would you be asking us for our feedback and advice today on just the next
4	announcement for one-year projects or also for potential reauthorization and
5	additional research in subsequent funding announcements that could go beyond
6	one year?
7	<b>DR. MIDDENDORF</b> : I think Dr. Howard is interested in getting information
8	this is Paul by the way is getting information and getting your advice extending
9	out beyond the point of reauthorization.
10	DR. HARRISON: Okay. Thank you.
11	<b>DR. TALASKA:</b> This is Glenn Talaska. One of the areas where there was a lot
12	of uncertainty was in the exposure and the ability to reconstruct the exposures from
13	the, from the 9/11 the measurements that were done. Does that seem to be an
14	area that's addressed? I realize that the Marmor study will be looking at the levels
15	and autopsy samples, but still my thinking is there has been nothing that addressed
16	strategies for doing monitoring under when circumstances like this might arise
17	again.
18	<b>DR. KUBALE</b> : Glenn, is that a question for us? We would agree with your
19	assessment.
20	<b>DR. TALASKA:</b> Okay, thank you.
21	DR. WARD: If there are no further questions, we'll move on to the next
22	presentation, which is by Drs. Farfel and Stellman about the World Trade Center
23	Health Registry Research Program.
24	
25	WTC HEALTH REGISTRY RESEARCH
26	<b>DR. FARFEL:</b> Good morning. Thank you for the opportunity to provide an
27	update on registry research. This is Mark Farfel, the registry director, and I'm going
28	to begin with a very brief overview, and Dr. Steve Stellman, the registry's research
29	director, is going to focus on registry research since our last update, which was at
30	the November 2011 STAC meeting as well as our plans going forward.
31	Next slide. Could I have the next slide, please?
32	DR. MIDDENDORF: Yeah, I'm working on it.
33	<b>DR. FARFEL:</b> The registry has a cohort study of more than 71,000 people
34	directly exposed to the 9/11 disaster. And it was designed to last 20-plus years with
35	periodic follow-up health surveys. We do collect additional data by matching with
36	administrative databases, to assess cancer, mortality and hospitalization, and by
37	conducting in-depth studies, such as our respiratory study, in collaboration with
38	NYU-Bellevue. The registry is also a platform for numerous 9/11-related studies by
39	external researchers, and Dr. Stellman will mention some of our active

	2
1	collaborations.
1 2	One of the core registry aims is to respond to the health needs and concerns
2 3	of enrollees and their families. Through our treatment referral project we do
4	conduct extensive outreach to encourage enrollees to access monitoring and
5 6	treatment through the World Trade Center Health Program.
6 7	Could I have the next slide, please? The registry has diverse populations of
	responders and non-responder survivors who were exposed to the disaster. We
8	have more than 30,000 rescue and recovery workers enrolled in the registry,
9	including thousands of firefighters, police, out-of-state responders, construction
10	utility workers and volunteers.
11	The largest group of survivors is the building occupants and passers-by
12	group, followed by residents and school children and staff. Approximately one in
13	four of our enrollees belong to more than one eligibility group, and that's why the
14	numbers total more than 71,000.
15	While most of our enrollees live in New York City, we do have enrollees
16	from all 50 states and more than 15 countries.
17	And next slide, please. The registry was conceived here at DOHMH shortly
18	after 9/11, and it became a collaborative effort funded by FEMA, ATSDR, CDC
19	beginning in 2002. Our Wave 1 survey was conducted in 03-04, and addressed new
20	and worsening physical and mental health symptoms and conditions and exposures
21	on and after 9/11.
22	The first follow-up survey was conducted in 06-07, and our Wave 3 survey
23	provided health updates approximately ten years post-9/11. These follow-up
24	surveys included questions on the course of symptoms and conditions, new
25	conditions, unmet healthcare needs, quality of life and had separate adult and
26	pediatric surveys.
27	We collected data on Hurricane Sandy exposures and health outcomes six to
28	12 months after the events among 4,300 enrollees living in inundation zones and a
29	sample of enrollees outside of inundation zones, and this effort demonstrated the
30	registry's ability to mount a rapid response to another event and to obtain good
31	survey response from enrollees. And our Wave 4 survey is currently under planning
32	for a 2015 launch.
33	Could I have the next slide? To date the registry has 43 publications in peer
34	review journals that report on adverse health outcomes across all eligibility groups
35	and subgroups, that address myriad conditions including some that Travis
36	mentioned earlier: PTSD, respiratory heart diseases, cancer, mortality, GERD, co-
37	occurring conditions and other topics such as access to care and respiratory
38	protection.
39	We're also in continuous communication with scientific and clinical

1	audiences through presentations at conferences and scientific meetings. We've also
2	produced a number of technical reports as well as three sets of clinical guidelines
3	developed with our colleagues at the clinical programs.
4	Other outputs include our in-depth studies, doctoral and masters theses
5	based on registry data and the public use data sets and data query tools that are
б	posted on the registry's website.
7	Could I have the next slide? The registry publications appear in a range of
8	journals, and here in this slide I've grouped them by type of journal. So they include
9	the clinical/medical journals, journals focused on occupation/environmental health
10	as well as mental health, public health/epidemiology and disaster-oriented journals.
11	And our publications do include two papers, an editorial and two letters in JAMA as
12	well as two papers in the Lancet.
13	Could I have the next slide? The publications the registry work is
14	informing disaster response through the peer review literature contributions, the
15	conference presentations, and studying the impact of exposure to multiple
16	disasters. We also contribute through the facilitated external research that includes
17	the studies of behavioral, organizational and structural aspects of evacuation of
18	damaged and destroyed buildings at the World Trade Center site.
19	Could I have the next slide, please? The treatment referral project at the
20	registry is actually one of the four aims under our current NIOSH funding. And the
21	project was launched in 2008 in collaboration with a health and hospital
22	corporations World Trade Center of excellence for residents and area workers, and
23	it's now been expanded to include responders and out-of-state enrollees.
24	And we conduct what we deem personalized outreach to survivors who
25	reported 9/11-related public health physical health and/or mental health
26	symptoms as well as to responders with and without symptoms who did not report
27	using 9/11 clinical services on the most recent survey. And our dedicated staff have
28	social work and nursing backgrounds and are trained in motivational interviewing
29	techniques so that they can encourage care seeking addressing attitudinal and
30	access barriers.
31	There are many challenges to this project. We have hard to reach
32	populations, for example, one of the subgroups with comorbid PTSD and depression
33	and low social support. Others are concerned about mental health stigmatization or
34	fail to connect their symptoms with 9/11.
35	And we have had some success motivating people either to make their first
36	appointment, when we were linked to HHC's program. We're now applying to the
37	World Trade Center Health Program, and we do continue to send applications for
38	the World Trade Center health application to interested enrollees and follow up to
39	see if they have applied and to offer assistance if needed.

1 And before I turn this over to Dr. Stellman, I just wanted to highlight some 2 of the registry's strengths that I believe will enable the registry to remain an ongoing 3 source for 9/11-related long-term health impacts research. 4 Could I have the next slide? And these strengths include the diverse cohort, 5 the large numbers that we have of both responders and survivors, the scope and б depth of the scientific output that have had a role in informing 9/11 healthcare and 7 providing lessons learned for future disasters. 8 We also have dedicated staff for core registry functions in the areas of 9 research, surveillance, cohort maintenance and treatment referral. And we do have a strong commitment on the part of the enrollees, and for example, we have valid 10 11 contact information for about 95 percent of our enrollees and relatively small 12 numbers of withdrawals; it's just a little bit more than 1 percent, and small numbers 13 of people currently lost to follow up. And lastly we do have increasing numbers of 14 collaborations with distinguished external researchers. 15 DR. STELLMAN: Good morning, this is Steve Stellman, the research director 16 for the World Trade Center Health Registry. I want to thank you for this opportunity 17 to acquaint the committee with highlights of registry published studies that have 18 appeared in print since our previous appearance in 2011. I just have to emphasize 19 that in the interest of time, I can only present the most salient features. All of these 20 papers that I will discuss are in the open literature except for a new one by Dr. 21 Brackbill on injury that was just accepted by American Journal of Epidemiology last 22 week. After I discuss the published studies, I'll give you an outline of the registry's 23 current research program. 24 As you can see we -- the registry has now published 44 articles in the peer 25 review literature and has five papers under review, and these sort into the thematic 26 areas that are largely under discussion this morning, physical and mental health. 27 As you can see on the right-hand panel, we have a number of other areas 28 for which we have collected data and for which there is considerable amount of 29 interest, and these are also the target of many of our studies, and I'll mention a few 30 of these here. Next slide? Just as I mentioned, just as highlights of several studies, we had 31 32 an article in collaboration with our colleagues at ATSDR, led by Vinicius Antao, on 33 use of respiratory protective equipment. I'd like to point out, by the way, that this 34 particular paper was one of a handful of nominees for the CDC's annual Charles C. 35 Shepard Award for Science, so -- for which there are usually about a thousand CDC 36 coauthored papers under consideration, so we're very happy to have been among 37 the finalists. 38 But we studied almost 10,000 rescue/recovery workers in that study. We 39 found that protective equipment were used most often by construction utility

1 workers, and that correct use of RPE was associated with between a 20 to 2 50 percent reduced risk of respiratory illness, and that fit testing and training were 3 key to effectiveness. And so, although these may seem somewhat obvious and are 4 consistent with the guidelines that NIOSH and other organizations have been 5 publishing for years, it's really rather rare in the literature to find an actual б evaluation of effectiveness. 7 What you also see on the slide is the clinical study that was conducted by 8 Dr. Friedman using innovative technology, impulse oscillometry, which is particularly 9 sensitive to distal airway dysfunction. We found that cases were more likely -- cases 10 of respiratory -- lower respiratory distress were more likely to have abnormal 11 spirometry than control but that a screening spirometry was relatively insensitive at 12 distinguishing symptomatic or asymptomatic control, and that this oscillometry 13 measurement was reflecting overall resistance to airway flow was more likely to be 14 elevated in cases than in control. 15 Next slide. We've now published three separate reports on coronary heart 16 disease, one on mortality, one on incidence and one on hospitalization. The first 17 bullet here refers to our incidence study in which we reported that dust exposure 18 and PTSD independently were predictors of elevated risk of nonfatal heart disease 19 in our Wave 2 survey; that is, two to six years post-9/11. 20 The second bullet, this is our newly published study in the Journal of the 21 American Heart Association based on linkage of respiratory data with the New York 22 State SPARCS registry, which is a hospitalization database, which we found 23 hospitalization for cardiovascular disease was 32 percent higher in women with 24 PTSD and 82 percent higher in male responders with high exposure compared to 25 low exposure. 26 Then in the last bullet, where we've also had a number of analyses of data 27 on GERD or symptoms of GERD, which we call GERS, or gastroesophageal reflux 28 symptoms. We found an elevated rate of GERS in our -- up to Wave 2 survey, and 29 found that these were especially pronounced in people who had comorbid PTSD, 30 asthma or both. So this has extremely important clinical implications for clinicians 31 who may be dealing with one or another of these outcomes, and may not realize 32 that all three of them may be associated with serious pathology. 33 Next slide? We've done the major study on mortality in the registry based 34 on linkage with the New York City vital records and with the National Death Index of 35 cancer based on linkage with the New York State cancer registry and the registries 36 of New Jersey, Connecticut and a number of other states where the great majority 37 of our enrollees live. The overall mortality in the registry population is considerably 38 below the population rate, which in fact is what you usually find in the early years of 39 a cohort study based on volunteer enrollment.

Cardiovascular mortality was in fact dose related to a 9/11 intensity score, so that the people with the highest exposure among the survivors had a hazard ratio of about 1.6.

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In our cancer study we found overall no increased risk of cancer among people who did not perform rescue/recovery work. And among the rescue/recovery workers, although the overall death cancer incidence was not increased, we did report excess risk of three types of cancer, thyroid cancer, prostate cancer, multiple myeloma, and these were strikingly consistent with reports from two of the other reporting agencies, the fire department and Mount Sinai.

Next slide. Some of our other recent findings. We recently reported on evacuation modes and time in people who evacuated the two World Trade Center towers. And building on a previous external researcher, the work of Robyn Gershon from Columbia University, we divided different types of various evacuations according to structural and behavioral pattern. We found for example evacuation time was related to encountering smoke and poor lighting, structural barriers and behavioral barriers such as serious crowding and lack of communication.

We have conducted three follow-ups -- or three rounds of data collection and two follow-ups on our pediatric cohort. And in the younger children we reported our respiratory health associated with 9/11 exposures, which we found a prevalence of lower respiratory illness in 14 percent of the children, and the great majority of those reported a previous diagnosis of asthma among -- with clinicians.

We also have been looking at behavioral outcomes in children and adolescents as well, using some validated scales. And for example, in this study reported that, based on a question now known as the strengths and difficulties questionnaire, which taps into a number of emotional and behavioral domains, there was a three-fold increased risk for an abnormal score -- abnormal or borderline score on this outcome among children who also reported respiratory problems.

The third item on this slide refers to the study that I mentioned previously that has just been accepted for the American Journal of Epidemiology. There really has been very little research on the initial injuries that were sustained during the first hours and days of 9/11 exposure. And it turns out, at least in our study, we followed them forward now for a number of years, and that multiple injuries are strong predictors of subsequent -- not only subsequent PTSD but subsequent development of chronic diseases including cardiovascular disease and diabetes, particularly cardiovascular disease.

And finally, as Dr. Farfel mentioned before, the Hurricane Sandy phenomenon in New York City, which hit us particularly hard during the last days of

1 2011, raised the concerns that many people who already were dealing with 2 9/11-related problems may have been re-traumatized, and so we sent out a survey 3 to several thousand people in the registry, stratified by whether they lived within or 4 not within the official FEMA inundation zone. Those data are still under analysis 5 now, and the only preliminary finding that I'm able to report right now is that б people with 9/11-related PTSD are about seven times more likely to screen positive 7 for a Hurricane Sandy-related PTSD compared to people with no prior 9/11-related 8 PTSD. But just keep in mind this is preliminary, unpublished findings that we expect 9 to be able to submit for publication very shortly. 10 Next slide. To give you an idea of the manuscripts that are now in 11 preparation, I've divided them into three areas here. We have two in-depth studies, 12 that is a nested clinical study of respiratory disease, which is in the field right now, 13 which is progressing very nicely. And then the Hurricane Sandy study that I just, just 14 mentioned. Below on the left, several studies in progress include one on mortality 15 related to substance use and then another study of reproductive health and 16 potentially adverse birth outcomes such as low birth weight at gestational age, 17 which we -- one study was -- which was done several years ago was only based on 18 several years of data, and now we've linked the registry's data to New York City vital 19 statistics for a 12-year period. So we have a much longer period of follow-up for 20 those. 21 Over on the right we have a number of other studies in progress including 22 the one on diabetes, one on the long-term time course of PTSD, which nowadays is 23 popularly termed, trajectory study. We're also concerned with comorbidity of 24 both -- as I mentioned before, comorbidity of physical and mental health outcomes, 25 where we have one nearly completed manuscript on the comorbidity of PTSD and 26 other mental health outcomes, particularly depression and anxiety. 27 We are working on one study on asthma control. We know asthma and 28 other respiratory outcomes are a major 9/11-related outcome, and we have data on 29 the extent to which people are using standard or recommended types of control 30 approaches. I mentioned before that we are continuing to follow up our population 31 for GERD. We're also concerned with unmet healthcare needs for physical and 32 mental health, and we have several studies on alcohol abuse that are in progress. 33 Next slide. Research that is planned for the next two years the -- or two 34 operational activities are the updating of our cancer and mortality databases. 35 Cancer incidence database that I mentioned derived largely from about a dozen 36 state cancer registries including New York State, New Jersey and Connecticut. And 37 our mortality assessment, which is based on our local vital statistics and National 38 Death Index. 39 Then we have an active study of adolescent behavior that is from -- goes

1	into several domains including internalizing behaviors, related to emotions,
2	externalizing behaviors such as conduct and hyperactivity.
3	As part of our mortality studies, we're specifically focusing on PTSD and
4	mortality, and then as we mentioned before our index study on rheumatoid arthritis
5	and then there's a nested case-control study, which will unfold over the next year.
6	I also mentioned before our study we're looking at risk factors and one is
7	smoking trajectories, and we're looking in particular at the impact of 9/11 on
8	smoking habits, which are some interest by themselves but which, of course, are
9	indicators and predictors of subsequent chronic disease.
10	Next slide. We are well along in our planning stage for Wave 4 survey. And
11	I'm very pleased to note that many of the people on this committee have already
12	made some valuable contributions to our to the planning process and to our
13	thinking about what will go into the survey.
14	The objective for the survey will be to assess the course of conditions that
15	we previously reported on, with a focus on chronic health, course of treatment for
16	selected conditions, functional status of our enrollees and quality of life indicators,
17	and then potentially new emerging conditions, which we're always looking out for.
18	The survey population is all adult enrollees who will be at least 18 years of
19	age in 2015, and that in effect is about 99 and a half percent of the entire registry.
20	The methods that we will use will be a web and paper survey, which worked very
21	well for Wave 3, and we use, as is our policy, we always send out surveys in three
22	language: English, Spanish and Chinese. And our current plan is to launch the survey
23	early in 2015.
24	Next slide. Dr. Farfel also mentioned our linkages with external researchers,
25	and this is something that we just simply can't do without, and we're very pleased
26	with our relationships. This is a magnificent way to leverage the skill set and the
27	resources in the registry and effectively tap into the very rich talent pool of
28	researchers in the New York metropolitan area and elsewhere.
29	We have a excuse me? We actively encourage external research projects
30	and, as Dr. Kubale mentioned before, there are have we lost our slide? Oh, okay.
31	Dr. Kubale mentioned before that many of the external research that the grant
32	funded proposals that NIOSH has funded are based on registry research. I'll just
33	mention a few of those. We provide external researchers many different ways of
34	collaborating with the registry: They can collaborate directly with us and just
35	include us as if we were part of the research team; they can simply use our data as a
36	public use database; or we have for several of these studies the registry can
37	facilitate the recruitment of registry enrollees and once the recruitment is actually
38	concluded, then the enrollees effectively are available to the external researchers
39	for their approved projects.

1	We have a review committee that reviews applications similar to the way
2	that most grant applications are reviewed. And to date we have approved 21
3	studies from nine American and international institutions. Not all of these studies
4	are in fact go into effect because many of them are contingent on funding for the
5	individual studies and some of the funding sources sometimes investigators get
6	funded and sometimes they don't. However, we are open as we possibly can with
7	the making our data available.
8	The next two slides will show the 11 active external research studies that we
9	have. And I think I'm just simply going to go down the list and mention the type of
10	study and the investigator, because many of these have already been covered by
11	Dr. Kubale.
12	So we have the first the first three first three bullets here are pediatric
13	studies: the physical health study of Dr. Trasande at NYU and two mental health
14	studies being done by Dr. Hoven at Columbia. The autopsy biomarker study by
15	Dr. Marmor; the smoking cessation intervention by Dr. Kotov at Stony Brook; and a
16	study of social integration and social support in police by Dr. Bowler at San Francisco
17	State University.
18	Next. We also have a collaboration with the Center for Aging at the CDC led
19	by Dr. Valerie Edwards, looking at cognitive functioning; another PTSD study among
20	police responders by with Dr. Bowler at SFSU. A study with Dr. Berger, who is the
21	oscillometry collaborator and is interested in developing normative scales for
22	oscillometry for comparative purposes. And then a very innovative GIS study of
23	respiratory conditions and exposures based on proximity measures with Dr. Antao
24	at ATSDR. And finally the study of upper respiratory symptomatology in responders
25	by Dr. de la Hoz at Mount Sinai.
26	Next. So with all of this activity going on, what are we actually doing? Well,
27	we are continuing the analyses of registry data that I've outlined several of these
28	slides already. As I mentioned we're working on the design and questionnaire for
29	our Wave 4 data collection. We're working on the in-depth respiratory health study
30	and the rheumatoid arthritis case-control study. We're updating cancer and
31	mortality assessments. We will continue referrals to the World Trade Center Health
32	Program that Dr. Farfel described. And of course, as we are doing now and we
33	continue to do as we publish our findings in the all the literature, we will share our
34	findings with the public and with policy makers.
35	Last slide. And once again, we gratefully acknowledge not only the funding
36	but the advice and counsel of our agencies: NIOSH, ATSDR, the very talented and
37	dedicated registry staff at the New York City Department of Health and Mental
38	Hygiene and the many members of our scientific community and labor advisory
39	committees, many of whom are represented on the this STAC as well.

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1	Thank you very much and we're happy to field questions, if you like.
2	<b>DR. WARD:</b> Thank you. The floor is open for questions.
3	MS. FLYNN: Liz?
4	DR. WARD: Yes.
5	<b>MS. FLYNN:</b> Hi, it's Kimberly. Thanks very much, Steve, for that
6	acknowledgment of the collaborators and partners that the registry has worked
7	with, and I just following on that, I really do want to make a pitch to this
8	committee for advocating a community-based participatory research process. And
9	just to sort of name one example of how important that was, the paper that
10	Dr. Friedman wrote, published in 2011, on impulse oscillometry, at one point in the
11	CBTR process, where the registry was meeting with members of the community and
12	also the medical director of the survivor program, Dr. Reibman, the registry was
13	contemplating eliminating oscillometry from that study design. And were it not for
13 14	the outcry among community members and Dr. Reibman, the registry may never
15	have had these important results and this excellent paper. So it really it really
16	does matter that there is a collaborative process and that that process includes
17	members of the affected community.
18	
10 19	<b>DR. FARFEL:</b> Are you expecting a response? All I can say is thank you again.
20	We've got the study actually was planned before I came to the registry but I to
20 21	this day, I do not understand why oscillometry is not a standard piece of equipment
21 22	at every respiratory pulmonologist's arsenal. It just seems to be so highly sensitive and useful.
23	
23 24	<b>MS. FLYNN:</b> Amen to that.
24 25	<b>DR. WARD:</b> Other comments or questions? Then I guess we'll move on to
∠5 26	the next speaker, which is Laura Crowley, who will speak about the World Trade
	Center Clinical Centers of Excellence and the Data Centers' Research Needs.
27 28	
28 29	WTC CLINICAL CENTERS OF EXCELLENCE/DATA CENTERS RESEARCH NEEDS
	<b>DR. CROWLEY:</b> Hi, good morning. First of all I would like to thank you for
30	the invitation to present on topics of interest for future research in the World Trade
31 32	Center Health Program cohorts. And I'm affiliated with the responder program at
	the Mount Sinai clinical center but I have responsibility today to report on behalf of
33 34	FDNY and survivor and responder programs. So I just wanted to start by describing
	the cohorts and a reminder of who each group is.
35	So as many of you know the FDNY program is a group of all active and
36	retired fire department members who responded to the 9/11 attacks; the responder
37	program includes workers and volunteers who responded to the 9/11 attacks; and
38	the survivor program includes people who worked, lived or attended school, child
39	care or adults in the New York City disaster area.

1The characteristics these are important characteristics within the groups2Certainly we provide medical monitoring and surveillance to each of our cohorts.3We provide specialized World Trade Center treatment services for exposure-relate4diseases in upper airway, lower airway, GERD, mental health and specific5musculoskeletal diseases and cancers. It's a unique group and a well-characterized6population at this point with high retention rates, and as everyone is well aware,7this is an unprecedented exposure and we do not have a control for comparison.	d
<ul> <li>Certainly we provide medical monitoring and surveillance to each of our cohorts.</li> <li>We provide specialized World Trade Center treatment services for exposure-relate</li> <li>diseases in upper airway, lower airway, GERD, mental health and specific</li> <li>musculoskeletal diseases and cancers. It's a unique group and a well-characterized</li> <li>population at this point with high retention rates, and as everyone is well aware,</li> </ul>	d
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5 musculoskeletal diseases and cancers. It's a unique group and a well-characterized 6 population at this point with high retention rates, and as everyone is well aware,	1
8 So as a reminder the James Zadroga Bill on 9/11 intent was to support, in	
9 terms of research, research on physical and mental health conditions that may be	
10 related to the September 11, 2001 terrorist attacks; research on diagnosing World	
11 Trade Center-related health conditions of such individuals in case of conditions for	
12 which there has been diagnostic uncertainty; research on treating World Trade	
13 Center-related health conditions for individuals in the case of conditions for which	
14 there has been treatment uncertainty. And of course any emerging conditions.	
15 In moving forward, the World Trade Center Health Program responder and	
16 FDNY and survivor programs agree that research should pretty much follow a	
17 general direction, and think of it in kind of a three-prong approach in thinking about	ıt
18 each individual topic that needs to be explored moving forward. So we divided it	
19 based upon mechanism, outcomes and progression of disease.	
20 So number 1, mechanism. This is the concept of particular scientific areas	of
21 interest may be explained in terms of structure, interaction of their component	
22 parts.	
23 Number 2 with the outcomes. Evaluating clinical and population-based	
24 research that seeks to study and optimize the end results of healthcare in patients	
25 And number 3, progression of disease. Where we evaluate disease states	
26 and objective markers that place patients at risk for disease advancement. And	
27 certainly we'll allow for early intervention for treatment and may promote	
28 regression of disease.	
29 Let's move forward with mechanism. I'm just gonna view a snapshot of a	
30 few published manuscripts, and you will see there are very many, that may fall into	)
31 each of these categories, and then we'll identify our thoughts moving forward for	
32 each category.	
33 So many of you are familiar with the FDNY study that was published in	
34 <i>Chest</i> . This was inflammatory biomarkers like GM-CS, CSS and MDC, that were	
35 found to be elevated in the air flow in air flow obstruction.	
The next paper was published in the <i>Journal of Asthma</i> by the survivor	
37 program by Dr. Joan Reibman's team, where they found an elevated level of	
38 peripheral eosinophils in the World Trade Center patients found to have symptoms	;
39 of wheeze and peripheral abnormalities with air flow obstruction.	

In the responder program, Dr. Landrigan and Dr. Lioy found that World Trade Center dust was highly alkaline, and mice exposed to dust develop moderate inflammation and bronchial hyper-reactivity. And that was published in the EHP that we're on.

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We have a mental health study, led by Dr. Pietrzak and Dr. Southwick, that evaluated basically the dimensional structure and course of post-traumatic stress symptomatology in World Trade Center. And they found that the disaster-related PTSD symptomatology in World Trade Center responders is best represented by five symptom dimensions.

We also have a study which, unfortunately, I don't have a slide today on, but it's a study that's about to be published by Dr. Luft's team, and presented at the American Psychopathology Association next month, in an abstract form. They provided an epigenetic linkage between PTSD and respiratory disease. They found specific genes associated with respiratory inflammatory cytokines, and this obviously could be very important in diagnostic and therapeutic impacts moving forward. So what does this mean? So I propose future mechanism studies, there are probably many but I'm going to name just a few.

So number 1, what may be the impact of World Trade Center exposure on responders' DNA? Many are experiencing chronic health decline but the mechanisms remain unclear. It's critical for us to understand the relationship between exposure and changes to DNA and gene expression and further insight and development -- insight into the development of disease and treatment options is essential.

Another example that may be worth exploring is we know from the current list of World Trade Center covered conditions, there's increased risk of sarcoidosis in hematological malignancy direct lymphoma. We could argue that these diseases are representative of a disruption in the immune system, suggesting maybe we could be taking a closer look at World Trade Center exposure in relation to diseases that alter the immune system, like hematologic disease, and seeing if there are any biomarkers to evaluate moving forward.

Let's look at our next prong, outcomes. So this manuscript is published in the American Journal of Industrial Medicine, by FDNY, and it highlighted the need to evaluate the relationship between symptoms, pulmonary function tests and diagnosis and utilization of healthcare. In the Lancet, there is the publication by Dr. Juan Wisnivesky and Dr. Landrigan for the responder programs that evaluated the nine-year cumulative incidence of asthma, sinusitis, GERD, depression and PTSD, and found there's a 27 percent incidence of asthma, 32 percent with sinusitis, 39 percent with GERD, and 31 percent PTSD, and 27 percent in depression. And we're still seeing spirometry abnormalities to date.

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1	In the Journal of Occupational and Environmental Medicine, Dr. Joan
2	Reibman's team from the survivor program, five years out, on disaster residents and
3	local workers are still seeing respiratory lung function abnormalities. And Dr. Luft's
4	team for the responder program was able to identify a linkage between PTSD and
5	respiratory symptoms in the <i>Journal of Psychological Medicine</i> .
6	In <i>EHP</i> , Dr. Southwick's team and Dr. Stellman looked at the responder
7	group and found that working in 9/11 recovery operations was associated with
8	chronic impairment of mental health and social functioning. Psychologic distress
9	and psychopathology in World Trade Center workers greatly exceeded the
10	population norms.
11	So thoughts on future of outcome studies. A couple thoughts came to
12	mind, preliminary thoughts. Number 1, a need to assess overall health status and
13	impact of World Trade Center exposure and how it's had on the individuals'
14	occupation economics and psychologically, how they've been impacted, how their
15	lives have changed. Very difficult end points to evaluate that we feel are definitely
16	worth while. Thinking about and figure out a way to investigate.
17	Number 2, how has exposure impacted cognition. Certainly that's an
18	interesting question to answer, and may be considered in additional questions and
19	adding additional questions to the monitoring program to explore further.
20	Number 3, identify patient characteristics that maximize psychotherapeutic
21	intervention for specific mental health conditions like PTSD.
22	And Number 4, but definitely not lastly, utilize DC resource, that's a data
23	center resource, to resume disease surveillance activities, to evaluate additional
24	outcome measures, especially since the data's readily available for real-time analysis
25	and can analyze those conditions that have been certified and are currently under
26	active treatment.
27	Moving to the next prong: Progression of disease. In Chest, we saw in Dr.
28	Prezant's study with FDNY, it highlighted a relationship between pulmonary function
29	test abnormality pulmonary function test improvement and lower respiratory
30	system improvement. And basically recommended what we need to continue to
31	follow spirometry in our cohort.
32	In our survivor program, Dr. Reibman's team was able to confirm that PTSD
33	high reversibility they were seeing in the population, but it reinforced the need for
34	continued treatment. They were seeing improvements in populations but the this
35	reversibility reinforced the need to continue to follow them very closely.
36	In the responder program, Dr. Gwen Skloot with Dr. Paul Enright noted
37	increased rates of spirometry even five years out post-9/11, and again,
38	recommended need for monitoring.
39	I'm going to skip to our thoughts on progression of disease, and skip the last

1 two slides in the interest of time. So advantage for the future. One example would 2 be responders who experienced both medical and psychologic sequelae are more 3 impaired. This group requires further evaluation to determine best management 4 strategy to optimize treatment. 5 Number 2 would be to investigate, and this is more in the physical health б arena, these last two, investigate the impact of renal disease in the context of 7 responders who now have multiple co-morbidities due to their exposure. 8 And number 3, consider identifying and characterizing those patients who 9 have had significant difficult health decline due to their World Trade Center exposure, especially those with severe asthma and interstitial lung disease. 10 11 So, you know, we've mentioned studies that have been done, just a few, in 12 each of the areas, general areas, of research that should be considered, and we've 13 mentioned just a few of the studies that we think should be maybe considered in 14 the future. Certainly this list is meant in no way to be comprehensive; it's only 15 meant to give it a direction of future research, and we'd be more than happy to 16 return and expand on the list of details after discussion with our lead World Trade 17 Center Health Program clinicians, researchers, (indiscernible) members. 18 We would like to just round it off by saying a few things we'd like the group 19 to consider is the time frame for any studies moving forward, the one-year, 20 obviously, versus the future, the longer time frame; and addressing those 21 populations that may be most vulnerable, like children; and thirdly, that these 2.2 populations may provide and translate to disaster, future disasters, or even non-23 disaster populations in the public health arena. 24 Thank you again for the opportunity to present our thoughts. 25 DR. WARD: Thank you for your presentation. I noticed that we missed our 26 11:00 to 11:10 break. Paul, do you think we should just go ahead and take it now 27 and then resume discussion with Dr. Crowley? 28 **DR. MIDDENDORF**: Why don't we go ahead and ask Dr. Crowley any 29 questions we might have, and then we'll take the break. 30 DR. WARD: Okay. Any questions for Dr. Crowley? 31 DR. HARRISON: This is Bob Harrison, thank you very much. It's just 32 incredibly impressive. Did any of the research studies address the question whether 33 early and aggressive treatment intervention make a difference in outcome? 34 DR. CROWLEY: Yeah, I mean, that's an excellent question, and certainly 35 something that is definitely worth exploring, based in the physical and mental 36 health arena, and I think in context of some of the potential proposals, certainly 37 could be woven in, and I think that's an excellent suggestion. 38 DR. HARRISON: I don't know whether it's too late to do that, looking 39 backwards over 15 years, but it's certainly one of the questions that I always have as

1 a public health, you know, official, is, you know, does getting people into early 2 treatment for respiratory symptoms or potential psychological sequelae make a 3 difference, you know, so that we really have to have the systems and infrastructure 4 in place. When --5 **DR. CROWLEY:** Right. I mean, we know from just a, from an asthma б perspective, certainly folks who were left with prolonged disease without treatment 7 are at risk for irreversibility. The Joan Reibman study that we mentioned early on 8 about, you know, the reverse -- potential for reversibility is an important point 9 because you have a chance to make an impact so that that doesn't become fixed 10 airway obstruction. 11 **DR. HARRISON:** Right. 12 **DR. CROWLEY:** So I think there are ways to do it, and I think it's a good 13 point. 14 DR. HARRISON: Yeah. 15 DR. CROWLEY: Thank you. 16 **DR. TALASKA:** This is Glenn Talaska. I have a very closely related question. 17 And I was wondering if there's been investigation as to which levels of either your 18 biomarkers or your clinical measurements are -- weren't associated with disease but 19 were associated with reversibility, so as we move on and try to prove which levels 20 which may be preventative in the future, that could be extremely useful, when to 21 remove people from an exposure when a marker is being made during the course of 2.2 that exposure. 23 **DR. CROWLEY:** Yes, and absolutely we would very much like to investigate 24 something like that. 25 MS. WALKER: Dr. Crowley, this is Debra Walker from the World Trade 26 Center Health Registry. I just had a question. You had mentioned about someone 27 looking at patients who had severe chronic disease, that you were interested in 28 looking at renal disease. Could you mention if you've seen patients who appear to 29 be affected or an association with 9/11 exposure? 30 **DR. CROWLEY:** It's too early to tell. I think it's a question that is definitely 31 ringing true in several of the investigators now. And I know Dr. Mary McLaughlin at 32 Mount Sinai with her cardiovascular studies in looking at some of the laboratory 33 markers felt like it was something worth investigating but it's too early for us to 34 draw that correlation as of yet, but definitely worth investigating. 35 MS. WALKER: All right. Thank you. 36 DR. WARD: Okay, so if there are no further questions or comments from 37 committee members, I think it would be wise to adjourn for our ten-minute break 38 so that we can be reassembled and ready for the beginning of the public comment 39 period at 11:30. Paul, do you want people to just leave their lines open?

		39
1	DR. MIDDENDORF: Yes. I think that would be best.	
2	DR. WARD: Okay. So my computer says it's 11:15; we'll try to all be back by	
3	11:25 to reconvene for the public comments.	
4	DR. MIDDENDORF: Yes, and	
5	DR. HARRISON: Liz, this is Bob Harrison; before we do that could just	
б	moving ahead on the agenda, we're scheduled to take what your lunch break is	
7	really my breakfast break in a couple in about an hour and a half or something like	
8	that?	
9	DR. WARD: Yes.	
10	DR. MIDDENDORF: So it would be 12:15 our time which is about in an hour	
11	from now.	
12	<b>DR. HARRISON:</b> About, about an hour from now, okay.	
13	DR. MIDDENDORF: Yes. So we have probably four public commenters	
14	have signed up so we'll probably finish up around noon, and then Liz and the	
15	committee can decide whether or not they want to begin discussing the research	
16	needs at that point or if they want to just go ahead and break for lunch.	
17	<b>DR. WARD:</b> Thank you.	
18	<b>DR. MIDDENDORF</b> : Okay. So we're going to take ten minutes?	
19	DR. WARD: Yes.	
20	DR. MIDDENDORF: Okay.	
21	(Meeting recessed from 11:15 to 11:30 a.m.)	
22	<b>DR. MIDDENDORF</b> : We are now entering the public comment portion of	
23	our agenda. Each of our public commenters is signed up on a first-come, first-	
24	served basis. Each of them will have up to five minutes to present. I just remind	
25	everybody that it's surprising how quickly five minutes can go when you're talking	
26	on a subject of importance to you. So around the four-minute mark, I'll just let the	
27	commenter know that they have one minute remaining to allow them to make their	
28	final point. If you haven't finished in five minutes, I'll have to rudely interrupt and	
29	thank you for your comments, and I apologize to anybody that this happens to but	
30	we have to be fair to all our presenters and we also need to try and stay on time.	
31	I do want to point out that you do have the option of submitting written	
32	comments to the docket. The docket number is 248-A. Information on how to	
33	submit those comments is on the NIOSH docket web page.	
34	The last thing I need to do before beginning the comments is to make sure	
35	the commenters are aware of the redaction policy for public comments. That policy	
36	is in the Federal Register notice for this meeting. It's on the committee's web page	
37	and it's in the materials available for downloading. So the policy outlines what	
38	information will be kept, what information will be redacted before it is posted to the	
39	docket.	

		40
1	So with that, I'll ask Dr. Melius, are you available?	
2	UNIDENTIFIED: Did you say you have to do a roll call?	
3	<b>DR. MIDDENDORF</b> : Oh, yes, you're right. I do have to do a roll call, thank	
4	you. Let's do a roll a quick roll call. Tom Aldrich?	
5	DR. ALDRICH: Online.	
6	DR. MIDDENDORF: John Dement?	
7	DR. DEMENT: Online.	
8	DR. MIDDENDORF: Kimberly Flynn?	
9	MS. FLYNN: Online.	
10	DR. MIDDENDORF: Bob Harrison?	
11	DR. HARRISON: On line.	
12	DR. MIDDENDORF: Catherine Hughes?	
13	MS. HUGHES: (indiscernible).	
14	DR. MIDDENDORF: Steve Markowitz?	
15	DR. MARKOWITZ: Yeah, I'm here.	
16	DR. MIDDENDORF: Guille Mejia?	
17	MS. MEJIA: (indiscernible).	
18	DR. MIDDENDORF: Is that Guille?	
19	MS. MEJIA: Yes.	
20	DR. MIDDENDORF: Okay. Carol North? Carol, are you there?	
21	DR. NORTH: I'm here.	
22	DR. MIDDENDORF: Okay. Julia Quint?	
23	DR. QUINT: Here.	
24	DR. MIDDENDORF: Bill Rom?	
25	DR. ROM: I'm present but I'm also Macintosh so I'm I can only hear and	
26	cannot see.	
27	<b>DR. MIDDENDORF</b> : Okay. What I said earlier is that, for those that are on	
28	Mac, when we have a motion, I will copy it and paste it into an email and send it on	
29	so you can see it.	
30	DR. ROM: Okay.	
31	DR. MIDDENDORF: Susan Sidel?	
32	MS. SIDEL: Here.	
33	DR. MIDDENDORF: Glenn Talaska?	
34	DR. TALASKA: Here.	
35	DR. MIDDENDORF: Leo Trasande? Okay, I expect he'll join us in a half an	
36	hour or so. Liz Ward?	
37	DR. WARD: Here.	
38	DR. MIDDENDORF: And Virginia Weaver?	
39	DR. WEAVER: Present.	

1	DD MUDDENDODE: Okay, the your flight been conceled just by the way?
1 2	<b>DR. MIDDENDORF</b> : Okay. Has your flight been canceled, just by the way? <b>DR. WEAVER:</b> No, it hasn't, so I'm still hoping.
3	<b>DR. MIDDENDORF</b> : Okay. If you need to leave, just let me know.
4	DR. WEAVER: I will, thank you.
5	<b>DR. MIDDENDORF</b> : So I'll ask Jim Melius, are you present?
6	DR. MELIUS: I'm present. Can you hear me, Paul?
7	<b>DR. MIDDENDORF</b> : Yes, we can hear you.
8	
9	PUBLIC COMMENTS
10	DR. MELIUS: Okay, good. It's hard to tell. Anyway, I would like to first
11	thank the committee for your certainly for your past efforts. I thought your
12	assistance on the with Dr. Howard on the cancer issues was very, very helpful and
13	I thought came up with a very good approach to dealing with a pretty difficult issue.
14	So that's most appreciated by myself and many others involved here.
15	I was very involved in developing the legislation that initiated this program,
16	and I wanted to make sure it's clear that the research portion of this was probably
17	one of the most difficult parts to get into the legislation. Given all the other federal
18	funding for research, it people were somewhat reluctant to we I found an
19	additional pool of research funding, and we made the case that it was important for
20	this unique population that I'm going, you know, medical research be done in a
21	number of different areas and this needed to be supported over a period of time.
22	just think, given that difficulty, it's important that we keep the research focused on
23	the World Trade Center populations, and although it is sometimes tempting to think
24	of some of the other areas where this research is pertinent to and what can be very
25	necessary and important research, really has to be funded, I think, through other
26	sources.
27	Secondly, I'd like to particularly thank Dr. Crowley for her presentation. One
28	of the things that disturbed me when I saw the initial agenda for this was there was
29	no formal input from the clinical centers, who are the people essentially on the
30	front line dealing with the many thousands of ill World Trade Center responders and
31	survivors. Although some of those people were represented on the lead advisory
32	committee, it seemed to me that there really needed to be formal input on that,
33	and I want to thank Laura for doing an excellent job on something that she, I think,
34	only heard about earlier and late last week, early this week in terms of organizing
35	that presentation.
36	I think those items really are the heart of what needs to get done in this
37	research, again, probably far too many questions given the amount of funding
38	involved. But still, I think it's very important that we really start to focus on some of
39	those issues that will provide the research that will, you know, hopefully yield a
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1       long-term benefit to those thousands of responders and survivors who are ill.         2       One important area that I've not heard discussed today is a focus on what         3       other conditions might be emerging in this population, and emerging conditions is         4       actually included in the legislation for this research. We have lots of data being         5       collected but the research review process tends to make it, I think, difficult of that         6       data to be evaluated and explored in some ways. We have many responders and         7       survivors who are ill who are concerned as to whether the conditions that they're         8       now developing, whether it be kidney disease, autoimmune disease, others, might         9       be related to their World Trade Center exposures and limited funding available         10       thorugh the clinics and to the data centers to evaluate that data.         11       Laready talked to Dr. Howard. I think direct funding to the data centers         12       may be appropriate, but for doing some of that slack, and I would         14       hope that you would, you know, see what could be done within the research         15       program to focus on that.         16       Finally. I would like to echo something that I believe Steve Markowitz said         17       earlier. I think one of the other important areas that I don't think is being addressed         1		4
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39 Ziem, Z-i-e-m, at a conference in (indiscernible) entitled Medical Evaluation		
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	4
1	Treatment Patient (indiscernible).
2	(extraneous interference from other participants)
3	And the treatment protocol for chemical injury, she testifies on her website,
4	chemicalinjuries.net. (more extraneous interference)
5	It's mcsbeaconofhope.com/ziem.html. It's the research paper she
6	presented. And her treatment protocol on her website, chemicalinjury.net, where
7	she recommends SPECT brain scans to detect the toxic encephalopathy, the brain
8	damage, and (indiscernible) for six to ten months as part of her treatment protocol.
9	I'm impressed by her findings and I'm also mystified why this has been
10	known for so many years and it's not been put in place for people in my position. I'll
11	give you my facts for now.
12	I lived across the street from the World Trade Center and was in the toxic
13	cloud. My apartment sustained considerable damage and contamination from the
14	dust and smoke that infiltrated the entire area at the time of the towers' collapse
15	and for months afterward. The office where I worked is also a few blocks away, on
16	Broad Street. I was a self-employed computer programmer/technology consultant
17	from 1985 up until the end of 2001. I was standing on the 14 <sup>th</sup> floor terrace of my
18	building where I lived on Albany Street and South End Avenue. That's catty-corner
19	to the Trade Center site when the south tower imploded, and was blasted by a gust
20	of vapor, and then immediately afterwards completely covered by the dust, and
21	inhaled a significant amount of blackened air.
22	I was in that environment for several hours until evacuated by tug to Jersey
23	City. I was very nauseous and had a severe headache at the time, and I went to a
24	(indiscernible) house in New Jersey and I had difficulty breathing and burning lungs.
25	I was taken to the emergency room at the local hospital and had chest
26	x-rays and was told to see a pulmonary specialist. Days later welts appeared on my
27	face, arms and legs and skin that was exposed to the dust. I tried to continue
28	working for my clients at the time but was so sick that I could no longer neglect the
29	health issues that developed.
30	What I ingested from the dust and what was in the air that day circulated
31	through my body causing extreme fatigue and affected various bodily functions for
32	periods of time at random: the field of vision in both eyes went completely black
33	only to return a few minutes later. Another time I lost hearing for several hours. I
34	had difficulty breathing. My brain function slowed down to the point where
35	everyday tasks appeared as a slow-moving slide show where I could see each step of
36	a process, neglecting to perform the most important steps.
37	This condition worsened over the next few years. I eventually lost the
38	ability to speak full sentences so that I couldn't think of words. For a time I lost
39	coordination of my hands. This became evident when I tried to dial a phone where

1	the phone number was in mind but I wasn't able to touch the corresponding
2	number on the keypad. Another time the lymph nodes in my groin area grew to the
3	size of golf balls.
4	(extraneous interference)
5	Sorry?
6	DR. MIDDENDORF: Excuse me, would everybody except Ms. Alexander put
7	your phones on mute, please? Thank you.
8	MS. ALEXANDER: In 2005, I developed a chronic sore throat and
9	hoarseness caused by a condition diagnosed as silent acid reflux which I continue to
10	experience to date. After five to six years of following a self-prescribed detoxifying
11	practice, my brain function improved but not to the level I had prior 9/11. To date I
12	have persistent thinking problems and poor thought retention where I struggle to
13	keep more than one concept in mind at a time. I also found that I have difficulty
14	learning new things which was never something I had trouble with as an ardent
15	technology professional.
16	I have difficulty performing procedural tasks; that is, anything requiring a
17	systematic approach. My thoughts become disorganized, leaving me unable to
18	perform the task correctly, requiring several attempts, especially when the process
19	requires the use of my hands.
20	This is completely disabling for a computer programmer with a brain as a
21	tool of the profession. I would like to rehabilitate this part of my brain so that I can
22	work again. I haven't been able to do so since 2001.
23	I found out about this protocol online just last week. I stumbled across the
24	term toxic encephalopathy. I looked it up and ran across Dr. Ziem's research paper,
25	and am mystified why this isn't being implemented. This has been out there for
26	years and you people are going about this as if this is all new and unfounded. This is
27	not new and there are treatment protocols in place.
28	I can't wait for your research to be gathered and analyzed. I'm sick now; I
29	need help now. And then so I would like to add this toxic encephalopathy as
30	physical damage. This is not post-traumatic stress disorder. This is quite physical. I
31	had an MRI early on in 2003, and it showed that there was a
32	(extraneous interference)
33	<b>MS. ALEXANDER:</b> (indiscernible) on the left side of my brain.
34	<b>UNKNOWN SPEAKER:</b> This is a smoker, right?
35	<b>MS. ALEXANDER:</b> I'm not a smoker. I was in good health before 9/11. I was
36	a jogger, very active. Afterwards I can no longer jog. I can no longer exert myself
37	because I can't breathe, all right? So that part I'm (indiscernible) just by avoiding
38	those things. The brain damage I need help with. I can't find anyone who knows
39	how to treat this sort of thing. Dr. Ziem's paper and her protocol is the closest thing

1	I'm finding to compthing that could be hereficial and Lurge you to take a good look
1 2	I'm finding to something that could be beneficial, and I urge you to take a good look
	at it and implement that as part of the program. Thank you.
3	<b>DR. MIDDENDORF</b> : Thank you very much, Ms. Alexander.
4	UNKNOWN SPEAKER: I, I didn't have that calcium test. That would have
5	been a standard, right?
6	<b>DR. MIDDENDORF</b> : Excuse me, who is that speaking? Who is that
7	speaking? During the public comment session, the only people who should be
8	speaking are the public commenters themselves. Everyone else should be have
9	their phone muted. Thank you.
10	Our next speaker is Mary Perillo. Mary, are you available?
11	MS. PERILLO: Yes, I am. I'm here.
12	DR. MIDDENDORF: Okay, great.
13	<b>MS. PERILLO:</b> Okay. My name is Mary Perillo. I just want to check that
14	everyone can hear me?
15	DR. MIDDENDORF: Yeah.
16	MS. PERILLO: Okay. My name is Mary Perillo and I am a 9/11-affected
17	lower Manhattan resident. I'm reading comments by the WTC Health Program
18	Survivor Steering Committee of which I'm a member.
19	(extraneous interference)
20	MS. PERILLO: Excuse me?
21	<b>DR. MIDDENDORF</b> : Who is that speaking? Operator, could you find out
22	who that is that's breaking in?
23	THE OPERATOR: Absolutely.
24	DR. MIDDENDORF: Thank you.
25	<b>MS. PERILLO:</b> Okay. The Survivor Steering Committee is presently
26	comprised of representatives of Manhattan Community Boards 1, 2 and 3, and a
27	range of community, labor, environmental groups advocating on behalf of
28	9/11-affected individuals as well as residents, students and area workers. There's a
29	wide range of knowledge gaps with respect to the science, biology and treatment of
30	WTC-related illnesses. Therefore, NIOSH should approach closing these gaps by
31	supporting a diverse portfolio of studies at different levels of funding including pilot
32	studies, in-depth clinical studies, studies of disease mechanism and epidemiological
33	studies.
34	It is especially important that the STAC recognize that input from the WTC
35	Centers of Excellence is critical to developing the World Trade Center Health
36	Program's research agenda since clinicians are likely to have the best sense of which
37	conditions may be emerging as well as crucial perspectives on resolving diagnostic
38	treatment and uncertainty.
39	The SSC has a number of recommendations regarding the World Trade

1Center Health Program research priorities for the survival population.2Given the increase - given children's increased susceptibility to harm,3especially in critical periods of development, it is imperative that NIOSH continue to4support - continue its support for research into 9/11 physical and mental health5impacts to those who were exposed to the disaster as children. Most important6would be in-depth studies of respiratory, developmental and endocrine health7impacts, and studies that explore avenues for early identification and intervention.8This cohort is rapidly dispersing so we urge NIOSH to double down on its support for9pediatric studies now.10Two, NIOSH should support longitudinal clinical research into the long-term119/11 physical and mental health impacts for survivors as well as long-term studies12that explore the progression of the disease and treatment efficacy.13Because of the known difficulties of performing epidemiologic studies on14small populations with ongoing treatment, we would like to suggest that alternative15approaches, studying cancer in diverse survivor populations be explored. Possible16approaches, studying tore of exposures, differences in presentation and the17understanding the possible role of exposures, differences in presentation and the18effects of comorbid conditions or additional risks.19Four, we recommend that blood samples be collected from WTC exposed20survivors including those who were children at the time of 9/11. Samples should be<		
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1	those who lived, worked or attended school in this geographic area as well as those
2	in the current Zadroga catchment.
3	We refer you to our written comments for the complete list. The SSC is
4	grateful for this opportunity to provide comments and appreciates STAC's
5	consideration. Thank you.
6	DR. MIDDENDORF: Thank you, Ms. Perillo. Our next public commenter is
7	Lila Nordstrom.
8	MS. NORDSTROM: Hi. Can you hear me?
9	<b>DR. MIDDENDORF</b> : Yes, you're coming through well.
10	MS. NORDSTROM: Great. Thanks so much. So I'm Lila Nordstrom. I run
11	StuyHealth which is an organization that represents students who were impacted by
12	9/11 and the 9/11 clean-up.
13	And I wanted to specifically urge NIOSH to fund studies of people that were
14	exposed as children, like the people in my group and, you know, a lot of the children
15	of survivors who lived in the area. We, you know, we don't really have a lot of
16	information on what kinds of health issues are coming down the pike for people in
17	our situation but we're going to be living with these health conditions for a really
18	long time. And to be I think it's important that we that NIOSH start to fund
19	studies that are going to help us identify, you know, what the early help us
20	identify early what the health impacts are going to be on people in our of our
21	generation, at Stuyvesant, specifically.
22	You know, we weren't even residents in the neighborhood but we we
23	returned to school on October 9 <sup>th</sup> when fires were still burning all around us, that
24	barge that they took the debris to from the World Trade Center site was right next
25	to our school building, and there were like more than 200 truckloads a day of debris
26	that came by. They weren't watered down or anything because it was too cold.
27	Our vent system wasn't cleaned. It was used you know, the school
28	building was used as a center of sorry, as a first responder base during the early
29	days of the clean-up. And so we, you know, were promised when we returned that
30	there would be, you know, that the school would be adequately cleaned but it
31	wasn't. The vents were still filled with 9/11 debris, the carpets in the theater were
32	not taken up or anything like that.
33	So we faced a sort of unique exposure but at a uniquely vulnerable time in
34	our lives, and we're not the only school in the neighborhood that had a similar
35	experience and, you know, specifically kids that lived in the neighborhood were
36	down there a lot earlier than we were as well.
37	But we, you know, we are trying to keep track of the health conditions that
38	people in our group are facing. We've already received word of a number of
39	unusual cancers and very high rates of conditions that people in their early 20s

1shouldn't really be facing, like very serious respiratory and acid reflux conditions ar2things like that.3And so we, you know, as people that are going to have to live with these4conditions for, really, longer than any of the other survivors because or, you5know, hopefully longer than any of the other survivors. It, you know, we're sort of6in a unique position where we can look at what these conditions are going to be,7you know, and catch them early because we were exposed so early.8So I want to ask that NIOSH start to, you know, look specifically at funding9studies that focus on young people that were exposed as children. I understand10there's already a study going on where something like 250 kids are being compared	T
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11 to prophylic and provide the table to provide the second	ł
11 to a control group, and a study like that should really be expanded pretty rapidly	
12 because there were young people in a lot of different situations that were brought	
13 down to lower Manhattan after 9/11 for various reasons. I mean, there were four	
14 schools on our corner so it was a very student-heavy population. There were	
15 obviously kids that lived in the neighborhood. So I just want to urge NIOSH to	
16 consider focusing on or finding some focus for studies that focus on young adults	i
17 that were exposed as children.	
18That's all I needed to say, if you want to give the time to	
19 <b>DR. MIDDENDORF</b> : Okay. Thank you very much, Ms. Nordstrom.	
20 MS. NORDSTROM: Okay.	
21 DR. MIDDENDORF: I want to apologize to the public commenters. Early of	n
22 in the process it sounded like somebody was breaking into the line; I'm not sure	
23 who it was but I think our operator has been able to correct that for us. But I do	
24 apologize for that.	
Liz, I'll turn it over to you. Where do you want to go from here?	
26DR. WARD: Well, we have a scheduled lunch break at 12:15. You know, I	
27 would suggest that we might want to talk about how we're going to approach the	
28 discussion of the research needs. I would think that it might be good to think about	t
29 them in each of the areas that Dr. Howard suggested we group them under and kir	d
30 of get a list of the main ideas that committee members would like to advance	
31 before we actually go to the motions stage.	
32 I also wanted to say to the committee that we don't necessarily have a	
33 mandate to prioritize the suggested topics, you know, one by one. We can group	
34 them into grouping high, medium and low priority. And one question of	
35 clarification, Paul, when Dr. Howard asked us to prioritize, did he basically ask us to	)
36 prioritize across all of the four categories or within each category?	
37         DR. MIDDENDORF: He didn't specify. I think you could do it either way. I	
38think it would be a little more helpful if you would categorize or group them into the	ie
39high-low or high, medium, low, despite which category or type of research that	

1       they might interact.         2       DR. WARD: Okay. So do the people on the committee feel that it would be         3       helpful to try to first discuss these within each category and get the major ideas         4       down before we try to prioritize them or does anyone have a suggestion for another         5       way to approach the discussion? Okay, well, I would suggest that we proceed that         6       way, then, and Paul, do you think it's reasonable that we break for lunch now and         7       reconvene in 45 minutes?         8       DR. MIDDENDORF: I think that would be fine.         9       DR. WARD: Okay. So my clock has basically 11:59 or noon, so we'll plan on         10       reconveneing at 12:45.         11       DR. WARD: Thank you all. I look forward to talking again at 12:45.         14       (Lunch recess from 12:00 to 12:45 p.m.)         15       DR. MIDDENDORF: I think it's time for us to get going again. We'll start         17       with the roll call. Tom Aldrich?         18       DR. ALDRICH: I'm here.         19       DR. MIDDENDORF: Bob Harrison? Bob back from his breakfast break?         14       DR. MIDDENDORF: Stree Markowitz?         15       Catherine Hughes?         16       DR. MIDDENDORF: Stree Markowitz?         17       DR. MIDDENDORF: Stowel Markowitz? </th <th></th> <th>49</th>		49
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37     DR. MIDDENDORF: Julia Quint?       38     (no response)		DR. MIDDENDORF: Carol North?
38 (no response)		
39 <b>DR. MIDDENDORF</b> : Okay, well we're missing a few people. I think we need		
	39	<b>DR. MIDDENDORF</b> : Okay, well we're missing a few people. I think we need

		50
1	to wait a few more minutes before	
2	DR. HARRISON: Paul, did you hear that Bob Harrison is here?	
3	DR. MIDDENDORF: No, I didn't.	
4	DR. HARRISON: Okay, I'm here.	
5	DR. MIDDENDORF: Okay. Back to Catherine Hughes? Carol North?	
б	(no response)	
7	DR. MIDDENDORF: I think we're about 50 percent here. Let's give it	
8	another minute or two and I'll start all over again.	
9	I'm hearing a lot of noise, possibly from a printer in the background, from	
10	somebody. If somebody is typing and has something on in the background, so	
11	please mute if you're not speaking.	
12	(pause)	
13	<b>DR. MIDDENDORF</b> : Okay, let's try this one more time. Tom Aldrich?	
14	DR. ALDRICH: I'm here.	
15	DR. MIDDENDORF: Okay. John Dement?	
16	DR. DEMENT: I'm here.	
17	DR. MIDDENDORF: Kimberly Flynn?	
18	MS. FLYNN: Here.	
19	DR. MIDDENDORF: Bob Harrison?	
20	<b>DR. HARRISON:</b> Bob's here.	
21	DR. MIDDENDORF: Catherine Hughes?	
22	(no response)	
23	DR. MIDDENDORF: Still not back. Steve Markowitz?	
24	DR. MARKOWITZ: Still here.	
25	DR. MIDDENDORF: Guille Mejia?	
26	MS. MEJIA: I'm here.	
27	DR. MIDDENDORF: Carol North?	
28	<b>DR. NORTH:</b> I'm back on now.	
29	DR. MIDDENDORF: Okay. Julia Quint?	
30	(no response)	
31	DR. MIDDENDORF: Bill Rom?	
32	(no response)	
33	DR. MIDDENDORF: Susan Sidel?	
34	MS. SIDEL: Here.	
35	DR. MIDDENDORF: Glenn Talaska?	
36	(no response)	
37	DR. MIDDENDORF: Leo Trasande?	
38	(no response)	
39	DR. MIDDENDORF: Liz Ward?	

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1	DR. WARD: Here.
2	<b>DR. MIDDENDORF</b> : Virginia I think was leaving. Two, three, four, five, six,
3	seven, eight. We only have nine; we don't have a quorum yet.
4	<b>DR. TALASKA:</b> Did you hear me? This is Glenn.
5	<b>DR. MIDDENDORF</b> : Glenn, no, I did not hear you.
б	<b>DR. TALASKA:</b> Oh, okay, no, I'm here.
7	DR. MIDDENDORF: Okay, that's one, two, three, four, five, six, seven, eight,
8	nine, ten. We have ten, Liz; we can proceed.
9	
10	DISCUSSION OF RESEARCH NEEDS AND
11	DEVELOPMENT OF RECOMMENDATIONS
12	DR. WARD: Okay, great. So as we discussed before lunch, I think what we'd
13	like to do is get the major suggestions down under each of the four areas that
14	Dr. Howard proposed we discuss. And under the first item, which is to identify critical
15	research gaps relative to our understanding of the effects of exposure, I think we
16	should also include suggestions related to characterizing the exposure because that is
17	(indiscernible due to extraneous input).
18	We are starting to hear some feedback from someone. We're having the same
19	problem we had before. So Paul, could you ask the operator to check on that?
20	DR. MIDDENDORF: Yes, I will.
21	MS. FLYNN: Liz?
22	DR. WARD: Yes.
23	<b>MS. FLYNN:</b> This is, this is Kimberly. I don't know whether or not Dr. Crowley is
24	back on the call but just speaking for myself, I would really benefit from an outline of
25	some of the studies, you know, the, the kind of research needs and approaches that
26	were not part of her PowerPoint presentation text but that she elaborated in her
27	presentation. Would it be possible to request that?
28	The other point that I think we could benefit from hearing her elaborate more
29	fully is the need for research resources to do analysis of all of the data pouring into the
30	responder and survivor data centers.
31	<b>DR. WARD:</b> So, Paul, what's the situation with Dr. Crowley? Are you trying to
32	reach her to see if she can rejoin us?
33	<b>DR. MIDDENDORF:</b> I sent her an email. We had asked some speakers to stick
34	around and join us in the afternoon, if it's at all possible, in case there were additional
35	questions. Dr. Crowley, are you online? Are you available?
36	DR. ROM: Dr. Rom just joined.
37	DR. MIDDENDORF: Okay. Thank you.
38	I'll ask again. Dr. Crowley, are you available? Okay, Kimberly, I think what we
39	can do is we can ask again in a few minutes.

1	<b>MS. FLYNN:</b> Sure. Thank you very much.
2	DR. MIDDENDORF: Okay.
3	<b>DR. WARD:</b> I did try to take notes on Dr. Crowley's recommendations, and it's
4	possible that, maybe between me and Ray, we could or me, Ray and Paul and
5	whoever else, we could at least try to capture some of her major recommendations, if
6	that would be helpful, and I think she did kind of divide them into the different areas
7	that Dr. Howard mentioned. Maybe not; I don't know. But anyway, so the two things
8	she I mean, if it's agreeable I can kind of read through them, and then, Paul, are you
9	going to be able to put them on the screen?
10	<b>DR. MIDDENDORF:</b> Yeah, I will try to.
11	DR. WARD: Okay. So the first thing she mentioned was impact on DNA and
12	gene expression. The second thing she mentioned was the increased occurrence of
13	sarcoidosis and hematologic malignancies, and whether that those both reflected a
14	relationship of the World Trade Center exposures to immune system disorders and
15	potential research looking at those mechanisms.
16	She then, in her next section, talked about a more general assessment of
17	overall health status and impact of World Trade Center exposures on occupational
18	experience, income, economic and social well-being as a separate topic.
19	She mentioned the specific topic, which dovetails with one of our public
20	presenters, on " has exposure impacted cognition"?.
21	She mentioned a topic of examining patient characteristics that maximize the
22	potential benefit of psychotherapeutic interventions. If I got any of these wrong,
23	especially outside my subject matter or expertise, please correct them.
24	MS. SIDEL: Liz, what does that last one mean?
25	<b>DR. WARD:</b> I can tell you what I'm interpreting it to mean, but maybe one of
26	our more psychologically experienced people could say it better. What I'm assuming it
27	to mean are what are the resulting characteristics of patients who seem to benefit
28	most from known interventions. But it could easily be rephrased or broadened in
29	different ways, and specifically related to what are the interventions that have been
30	employed and how effective are they and what populations do they seem to work best
31	in. So that one could definitely probably use a little bit of, you know, discussion and
32	MS. SIDEL: Right.
33	<b>DR. WARD:</b> But that's how I interpreted it.
34	And then the next one relates to how to better use data resources to for
35	surveillance of health conditions related to the health centers, and then I think that
36	specifically referred to the data resource centers at the World Trade Center program
37	site.
38	I think there was the next topic I wrote down is pretty general, and she may
39	have been more specific, but just was the whole question of understanding the

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1	progression of disease. I guess that also would relate to whether it progresses or
2	whether it actually improves over time.
3	So the next one, as I interpreted it, and this could be a little off, is looking at the
4	medical and psychological sequelae of exposure among the more impaired individuals.
5	The next one is looking at the impact of renal disease in responders with
6	multiple co-morbidities.
7	And then the next one, which may be related to one of the previous ones,
8	characterize individuals with significant health impairment.
9	MS. SIDEL: I'm sorry, characterize?
10	DR. WARD: Characterize individuals with significant health impairment. But I
11	don't think that I don't think it really means characterize individuals but I guess it's
12	more of a descriptive study to of populations with significant health impairment.
13	That could be clinical; it could be exposure status; it could be specific demographic; it
14	could be a lot of kind of focus on the more impaired individuals and try to understand
15	better who they are and what their needs are would be how I interpreted that.
16	MS. SIDEL: Okay.
17	DR. WARD: Specific question, which could be applied in a lot of the a lot of
18	areas: Did early intervention make a difference in outcome? And there may be some
19	specific areas where we would think that that would be most appropriate. There was a
20	mention of a need for research to identify new conditions that may be arising in the
21	population. Several people mentioned, including Dr. Crowley, the need for better
22	exposure assessment or more exposure assessment studies. That was all those were
23	my notes from Dr. Crowley's presentation.
24	MS. FLYNN: Thank you very much, Liz. This is Kimberly. Your notes are better
25	than mine; I really appreciate it. I do want to add in to this list that Dr. Crowley also
26	mentioned research into the impacts, the health impacts to vulnerable populations
27	such as children.
28	<b>DR. WARD:</b> So Paul, there's a I'm in a little bit of a pause because I was
29	looking at my notes, and now I'm trying to get back into the website so that I can look
30	at what you're typing.
31	DR. MIDDENDORF: I'm sorry. I had mine on mute.
32	<b>DR. WARD:</b> That's okay. No, no, I'm saying I'm trying to get back in I
33	somehow have lost the website where we can look at the documents you're looking at,
34	so I have to find it again.
35	<b>DR. MIDDENDORF:</b> Does everybody else, who is into the meeting, actually see
36	where I've been typing?
37	DR. ALDRICH: Yeah, I see it.
38	<b>DR. MIDDENDORF:</b> Okay. And a quick question for Catherine. Are you able to
39	speak into the meeting now? I'm not hearing you so I'm assuming that you're not able

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1	to speak into the meeting. I need to check on that again.
2	<b>DR. WARD:</b> So is everyone now able to see Paul's notes either through the
3	website or through an email that Paul just sent?
4	MS. SIDEL: Yes. Thank you, Paul.
5	MS. MEJIA: Thank you, Paul.
б	<b>DR. WARD:</b> So Paul, if you would then add to that research on health impacts
7	on vulnerable populations?
8	<b>DR. MIDDENDORF:</b> I'm sorry, say that again?
9	<b>DR. WARD:</b> A point that was just made on research on health impacts in
10	vulnerable populations.
11	<b>DR. ALDRICH:</b> This is Tom Aldrich. I wonder if I could mention another area?
12	DR. WARD: Sure. That's, I think, what we should do now is look at the you
13	know, kind of add to the list and make sure that and keep yeah, add to the list until
14	we've gotten all of the major topics covered, and then go through and try to refine and
15	combine. So go ahead, Tom.
16	DR. ALDRICH: Okay, well, I'm impressed with the there's three large cancer
17	studies have remarkably similar results. Not everything not all the cancers have
18	statistically significant increases but each of the three large studies showed significant
19	increases over expected in at least some cancers. And all of them were only up to
20	seven years post-9/11.
21	And I think in general we believe that cancer latency averages longer than that,
22	something in the range of 20 years, so what we may be seeing is a leading tail of a
23	bell-shaped curve. And if that's the case, then we're in for very large increases in
24	cancer in the future. That may or may not be true but we should be thinking about that
25	possibility.
26	And so I think that it's reasonable to expect, because of the inhalational route
27	of exposure for most of these toxins, that head and neck, lung, esophageal cancers
28	might be might emerge next. And those of course are extremely deadly and hard to
29	treat, so early diagnosis is really important.
30	I think we should solicit proposals to evaluate biomarkers or other early
31	detection techniques to detect free cancerous lesions or early cancers in order to treat
32	them when they're potentially curable.
33	<b>MS. HUGHES:</b> That sounds really good. Catherine here. Can you hear me yet?
34	<b>DR. MIDDENDORF:</b> Yes, we can hear you now.
35	<b>MS. HUGHES:</b> Great. I liked the last comment. Thank you.
36	<b>DR. ROM:</b> I might add to Tom Aldrich's recommendation for biomarkers for
37	early cancer detection. NIOSH could actually interact with NCI, who has a program on
38	early called the early detection research network that funds about 35 PIs around the
39	country for studying biomarkers in high-risk populations for early detection of lung

1 cancer, prostate cancer, GI or women's cancer. And that program is very collaborative 2 and would probably be interested in the WTC registry. So that's a second for 3 biomarkers for early detection of cancer recommendation. 4 I would add to that -- this is Bill Rom speaking -- that it would be very nice to 5 develop biomarkers for asthma since we've gone from about 9 or 10 percent at б baseline up to 27 percent in the Lancet article that Dr. Crowley cited, that there must 7 be markers spilling over into the blood or other sources that could be looked at to 8 correlate to these symptoms and meet the physical findings. And it may help us understand the etiology of asthma. 9 10 And I might add to that that microbiome might have something to do with that, 11 and we haven't even discussed microbiome, but that might be something that's altered 12 by World Trade Center dust and the GERD, asthma and sinusitis populations. And I'm 13 not sure we've had any applications to look at that, but that might be another altered 14 background setting that predisposes to these illnesses. 15 DR. WARD: That's great, and thank you. And I just wanted to interject a 16 procedural thing -- this is Liz again -- that, as each of the speakers talks, I'm assuming 17 that you're going to double-check what -- how Paul has captured your suggestions and 18 make sure that they're -- I think Paul's doing a great job of condensing them, but make 19 sure that they are captured accurately and that all the points are captured. 20 DR. MIDDENDORF: Yeah, I'm going to have to circle back with some of the 21 folks, like Bill Rom, who I -- is not able to get into the website. So I'm going to have to 2.2 email this out real quick. 23 **DR. WARD:** Okay, yeah, it is helpful for those who can to follow along on the 24 website. I just -- I somehow had gotten myself out of it but got myself back into it, and 25 so it's really helpful to follow along the suggestions. 26 So would anyone else like to add something to the list? I think Paul is sending it 27 out again. 28 **MS. SIDEL:** I would. I'd like to add something to the list. It's Susan Sidel. 29 DR. WARD: Okay. 30 MS. SIDEL: Something that I think Dr. Melius mentioned earlier and that I've 31 raised a few times is autoimmune diseases. There has been, I think, very little research 32 on autoimmune diseases, and it's interesting because I -- I mean, obviously I'm not a 33 doctor but I do know that it's accepted among hematologists that environmental toxins 34 cause some autoimmune diseases or if you have a genetic predisposition to it, it'll make 35 the autoimmune disease, you know, happen when it may not have otherwise, if you are 36 exposed to something. 37 Now, and this is something that would have been interesting to ask 38 Dr. Crowley. I wonder if part of the reason why something like autoimmune diseases 39 are not covered is because the kind of doctors that would study it, I think, would be a

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1	rheumatologist, and there aren't any rheumatologists that are involved in the program.
2	I mean, that's not the kind of doctors that we have. And if that's the reason why, then
3	do we reach out, you know, to specialists? I mean, how does that work? So it's like a
4	two-part question because, I think it
5	<b>DR. ALDRICH:</b> Tom Aldrich.
6	MS. SIDEL: I'm sorry, what?
7	<b>DR. ALDRICH:</b> I would just mention that one of the funded research projects is
8	specifically to look at incidence of autoimmune diseases, and one of the cohorts
9	relative to that would be expected in the population. So it's being addressed at least in
10	one area. I think I saw something about rheumatoid arthritis in another study also.
11	<b>DR. WARD:</b> And who was speaking just then?
12	<b>DR. ALDRICH:</b> I beg your pardon, Tom Aldrich.
13	MS. SIDEL: Right, but the document that, you know, well, I mean, that's really
14	good but is that enough? Because I mean, there was something that I was reading
15	about asbestos out in Libby, Montana and how it's Montana and how exposure to
16	asbestos, they're seeing a lot of lupus, which is usually something that affects women,
17	you know, that are of child-bearing ages, and it's happening in a lot of men that are in
18	their 40s. So I mean, it's just something that's a really broad subject, and the whole
19	inflammation-cancer connection from the you know, from the fire department
20	article, I just think that it's something that really needs to be looked into.
21	And also I have to say that, because I have one and I've just been fighting for it
22	for years, and there's so much resistance at the program to even considering that what
23	was going on with me could possibly have anything to do with my exposure. And, you
24	know, it wasn't until I got a specialist involved to definitely say that it was, you know,
25	before I could take that information back to the you know, back to the program and
26	have it be taken seriously.
27	DR. WARD: So
28	MS. SIDEL: So.
29	<b>DR. WARD:</b> Yeah, I think one thing we could do is, as we get the new
30	suggestions in, is see if they really fit if they dovetail well with something that's
31	already on the list. So I would say that this autoimmune diseases, we could combine
32	that with the second suggestion on the list, to look at sarcoidosis and malignancy. But
33	maybe the broader topic is immune system disorders, and that would include
34	autoimmune diseases, malignancy
35	<b>MS. SIDEL:</b> Oh, that's a good idea.
36	DR. WARD: Yeah.
37	<b>MS. SIDEL:</b> The other thing that to me, you know, talking with my doctor,
38	especially since that woman was talking about it earlier, but a lot of people I've
39	known a lot of people that have cognitive issues in the program, and it's usually

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1	thought, you know, the doctors will say, well, it's because of PTSD. And it isn't. It's
2	something definitely happens to your brain from exposure to toxins. And I thought
3	that that's something that would be really interesting to look into as well as the fact
4	that we're not using EMDR to treat post-traumatic stress disorder. I mean, it's like
5	there's so many there are so many techniques to deal with post-traumatic stress
6	disorder and we're using, you know, like old-fashioned psychotherapy when there
7	are
8	DR. ALDRICH: What is EMDR?
9	MS. SIDEL: I forget exactly what it stands for but, you know, you sort of relive
10	the it's like left-brain/right-brain, you kind of see they put little clickers in your
11	hands and you kind of relive, you know, the painful experience, and you just kind of
12	keep you know, you're going to do this with a therapist, and you kind of work
13	through it until it doesn't you know, it's not as troubling. I'll look up the initials.
14	Actually, let me just Google it.
15	MS. FLYNN: Hello? Can you hear me?
16	MS. SIDEL: Yeah.
17	MS. FLYNN: This is Kimberly. Hi. EMDR is eye movement desensitization and
18	reprocessing. And at least one clinician in the Bellevue responder program has used it.
19	I, you know, was lucky to catch a presentation a couple of years ago. So I'm not saying
20	there shouldn't be research on it but, you know, it is a recognized modality.
21	MS. SIDEL: And there's another there's something else that they do at Mass
22	General that's like the next step up from EMDR. I don't remember what it's called but
23	maybe, Dr. North, maybe you might have more information about this. But I think
24	we're using techniques that are kind of like old-fashioned and take a long time. And
25	there's like there's shorter ways to deal with, you know, the trauma.
26	<b>DR. WARD:</b> Is Dr. North on the call yet?
27	MS. SIDEL: I guess not.
28	DR. HARRISON: This is Bob Harrison. I would like to add an idea or concept to
29	the list, and that is research that focuses on practice or, you know, what NIOSH has
30	called R-to-P, research to practice. Sometimes we call it applied epidemiology or
31	applied public health. One of the things that has struck me, maybe coming out here
32	from the west coast perspective but also as an occupational medicine provider, is that
33	there's a huge amount of research that's incredibly valuable from these studies that
34	and there's been a lot written, you know, and really good summary articles, but I guess
35	thinking it now, it's going to be, you know, almost 15 years out from this experience.
36	You know, is there a way to integrate or apply the research findings and think about
37	how it's affected the population that's in the registries or other potential worker
38	populations. You know, this I see the research not only divided up into three
39	categories that we're charged with, but there is, you know, basic biological

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1	biomonitoring, etiological, epidemiological, but, you know, but I guess this other
2	element is, you know, practice or public health impact. I don't know how that would
3	be translated into research proposals but I would just throw that into the mix as, if
4	there was an announcement that was put out that would encourage, you know,
5	innovative proposals along that line.
6	<b>DR. MIDDENDORF:</b> I just want to interrupt for just a second. Dr. North is on
7	the line but she's having trouble speaking. We're trying to get her access.
8	<b>DR. NORTH:</b> Can you hear me?
9	<b>DR. MIDDENDORF:</b> Yes, we can hear you now.
10	<b>DR. NORTH:</b> Oh, excellent. I've been trying six or eight times to interject and
11	nobody heard me.
12	So regarding the mental health discussion, I had a couple of things that I
13	wanted to add to the list, if that would be okay at this time.
14	<b>DR. WARD:</b> That would be great.
15	<b>DR. NORTH:</b> Great. Okay, well, the first thing relates to something other
16	people have talked some about, which is the exposure issue. And 9/11 really was a
17	different disaster from most past disasters in because of its scope and magnitude, the
18	exposures may have gone a lot further than previous disasters. But I don't think we can
19	necessarily assume the exposure zones for mental health problems will be the same as
20	for other diseases. And so I think it's critical that that be further studied. That's my
21	first item.
22	My second item is that often, for lack of a better method, diagnoses are not
23	made and instead mental health problems are discussed in terms of symptoms, and,
24	you know, we don't study cancer symptoms; we study cancer. And it would be good if
25	we could if research could figure out a better way to assess full psychiatric disorders.
26	'Cause it's not clear what these symptoms mean outside of disorders. They can be very
27	nonspecific, so I'd like to see the field improve its ability in research there.
28	Hello? Did you hear me?
29	DR. MIDDENDORF: Yes.
30	DR. WARD: Yes.
31	MS. SIDEL: I didn't hear her. She cut out.
32	DR. MIDDENDORF: I think she finished, and then she was waiting for a
33	response and didn't hear anything; is that correct?
34	DR. NORTH: Yes.
35	MS. SIDEL: Oh.
36	<b>DR. WARD:</b> And so this is Liz. I'm trying to figure out what the best way to kind
37	of collate this information is since only Paul really has direct access to the document.
38	So I guess, Paul, if maybe periodically, when you mail this out I think you're mailing it
39	out to everyone regardless of whether they have access to the web version or not.

1	DR. MIDDENDORF: Correct.
2	<b>DR. WARD:</b> And so Carol, if you would go into the text that Paul just
3	transcribed and kind of edit your comments, that would probably be helpful, and in fact
4	if everyone could do that, because I think Paul's capturing the bare essence but I think
5	we will want to have a version of the document that has these points more clearly
6	articulated. And then one of the things we'll probably want to do is take the email
7	version of the document and start grouping things and collapsing and organizing. I do
8	think that we may have gotten off-track a little bit with our plan to focus first on John's
9	area 1 and then area 2. I'm actually having a little trouble sorting out which of the
10	things in our list fall into the different categories. But I do think it would be important
11	that we have some interactive mechanism for people to go in and edit their comments
12	so that we can get this list to be as clear as possible.
13	<b>DR. NORTH:</b> Can we do it by email? 'Cause I can't get on the web.
14	<b>DR. WARD:</b> That's what I'm thinking. Probably the easiest thing is if
15	everybody Paul, if this doesn't sound good to you, let me know. Let's say, if I made a
16	point, I could take that point from the latest version of your document, rephrase it, if
17	necessary, and send it back to you, and then you could insert it in the master
18	document? Would that
19	DR. MIDDENDORF: That sounds fine.
20	DR. WARD: Okay.
21	DR. ALDRICH: This is Tom Aldrich. I was struck by something Dr. North said
22	and I think it's something that we should follow up on. The remote or the different
23	geography that might apply to mental health issues as compared to, for the want of a
24	better word, physical health issues, one example of that, that I think was very
25	interesting, was the 9/11 dispatchers who were not within the footprint of the World
26	Trade Center nor the original geographic boundaries but had significant PTSD issues. I
27	don't remember any details about it but that's an interesting aspect of this that's got a
28	little attention.
29	<b>DR. NORTH:</b> This is Carol North. That's a very interesting twist on the exposure
30	issue. Because this disaster was so big, we've never even really thought about these
31	things before.
32	DR. WARD: So it does sound to me this is Liz that we will want to coalesce
33	around at least one research priority topic related to mental health issues and maybe
34	fold in the issue of cognitive impairment? Dr. North, do you have a sense of how those
35	might be if those should be combined, and if so, how, or if they should be separate?
36	<b>DR. NORTH:</b> Well, some of cognitive impairment is truly a psychiatric issue.
37	Other cognitive impairment, depending on the situation, could be neurological or
38	metabolic or otherwise medical, so it touches on both.
39	<b>MS. SIDEL:</b> The issue I'm concerned about with the cognitive is if it's thought of

1 as being part of like PTSD, it sort of diminishes the impact of it. Because there's 2 therapy, like cognitive remediation, that people can do, and if it's not thought of as its 3 own -- you know, as its own thing and it's like kind of wrapped up PTSD, then people 4 aren't going to have access to the kind of therapy that's really going to help them 5 function. б **MS. FLYNN:** This is Kimberly, and this issue of cognitive impairment came up 7 recently in the survivor steering committee, because apparently lots of patients at the 8 World Trade Center of our mental health center are complaining about cognitive 9 issues: memory, attention, thinking, et cetera. And what the mental health director at 10 the EHC who was present said to us, that made a great deal of sense, is that there 11 should be a preliminary study. There needs to be, sort of as a first step, a full 12 characterization of the problem, because indeed we don't know how much of this 13 problem is a result of environmental exposures and how much of this problem is a 14 result of psychological exposures to the disaster. So I don't know if I'm, if I'm, you 15 know, capturing her expertise adequately but that was the point that emerged from 16 our meeting. 17 **DR. NORTH:** Lagree. Lagree with you. 18 **DR. MIDDENDORF:** I just want to let everybody know that all of the emails that 19 I send out and anything I get back in terms of an email will be compiled into a 20 document and it will be posted on the website so that all this is public information. 21 MS. HUGHES: I have a question -- Catherine Hughes here. Are we checking 22 that the treatments, such as for cancer, is effective or not or there may be more 23 effective modes to treat the cancer? Would this be a study topic? 24 DR. ALDRICH: This is Tom Aldrich. The problem with that approach is that 25 there are so few cases, that there's not going to be enough power in the study to 26 determine different treatments. So I think we have to leave treatment differences for 27 cancers to the cancer experts who are treating large numbers. 28 DR. MARKOWITZ: This is Steve Markowitz. I think there is a related topic, 29 though, that probably is germane, which is that this is a big -- the World Trade Center 30 Health Program is now a pretty big system, and someone should be looking at the 31 healthcare utilization in the group and perhaps comparing it to the World Trade Center-32 exposed people who are not participating in the health program, to understand the 33 patterns of how people are using this care, thinking ahead to the future disasters' 34 problems, whether it makes sense to set up a new segregated health program or 35 whether it makes sense to pursue a different kind of way of treating people. And 36 related to that, not just on the treatment side but on the monitoring side, I think some 37 research needs to be done on the utility and effectiveness of the current monitoring 38 program. On the health -- on the WTC Health Registry side, we have, you know, a 39 questionnaire-based approach; on the Health Program side, we have a physical

1	examination, an annual at least an annual offer of an encounter, although most
2	people don't show up annually. And the question is, does what are the pros and cons
3	of both sides, but specifically in the World Trade Center Health Program, what's the
4	utility actually providing hands-on monitoring? That's not to speak in favor or against
5	it, just we need to understand what we're getting out of it. So I would say that the
6	research area would be both healthcare utilization on the treatment side and also, on
7	the monitoring side, utility and effectiveness of the monitoring program as it's set up
8	now.
9	<b>MS. SIDEL:</b> Well, one of the issues also with the monitoring program is that
10	you're telling everything to a nurse, and she's interpreting what you're saying and
11	putting it into your file, and if you don't there's a lot of times that information is like
12	incorrect, it's sort of her version of what you're telling her. And so I've always
13	wondered if it would be better to have some sort of a system where there was like an
14	internet or people just had an iPad and they filled out all that information themselves,
15	because at times it becomes congested when someone else is (indiscernible).
16	<b>DR. MARKOWITZ:</b> That would be a this is Steve Markowitz yeah, that
17	would be the kind of question that could be looked at in this research area.
18	MS. SIDEL: Yeah.
19	MS. MEJIA: Liz, this is Guille Mejia. I just wanted to bring up something that
20	Jim Melius had mentioned in his presentation which was that he was looking at
21	focusing on emerging conditions. And so I think one area that we might want to look at
22	is what are the non-covered conditions that are being reported by participants in the
23	Health Program, and is there, you know, a pattern or trend or anything that can lead to
24	maybe adding more conditions?
25	DR. WARD: Yeah, I think that's very well stated, and it's connected with one of
26	the topics we've already captured. I think it's stated more clearly. I think we said
27	something about new conditions, I think. But I think this really captures what we're
28	trying to say. So Paul, if you could get that down.
29	MS. FLYNN: Liz, this is Kimberly with a follow-up comment, which is that it
30	does appear that research resources are needed to do analysis of any emerging
31	conditions that are, you know, in the database. My sense right now is that the data
32	center has this information and does not have the wherewithal to conduct the
33	analyses.
34	MS. SIDEL: This is a little bit far out, but I'm going to take a risk and bring it up
35	anyway, is that, you know, because of the victims' compensation fund, attorneys are
36	compiling tons of information on each of their clients' health conditions that are
37	related to the World Trade Center, and that information is definitely out there. It's
38	either going to go to the justice department or it could be compiled, you know,
39	individually. But it's a lot of information because each person each client goes and,

you know, tells every condition that's related to World Trade Center (indiscernible) and it's pretty simple.

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**DR. WARD:** Good. I think, I think one way to help reframe the discussion so that we're as responsive as possible to Dr. Howard's questions is to look again at his questions. And I think what he's asking us to do is to identify critical research knowledge gaps in each of these areas. So while I think it's tempting to look at specific courses of data or specific ways to do research, I think what we really should try to do is articulate as clearly as possible what the knowledge gap is that we're trying to address.

**DR. ALDRICH:** This is Tom Aldrich again. It seems to me that that that's been presented today is pretty good overview of the knowledge gap. My view is that -- I mean, there's only so much money for research, and there are gaps. To me the best way to approach this is to provide some guidance to areas that are -- that NIOSH or whoever thinks is important, but yet make the determination of funding dependent on the best quality research. So if it turns out that the best quality research does not match exactly with our list of needs, I don't think that's necessarily a problem. We should be supporting the best research that we can.

**DR. WARD:** Well, I think it's real -- you're addressing two areas of the process, and maybe someone at NIOSH would like to chime in. So I think our function as the scientific advisory committee is to suggest the priority -- or you know, the priority knowledge gap. And then there's a separate process that evaluates the quality of the proposal. So I think our recommendations might be used to help draft better requests for proposals. But I think there's a separate process that's going to evaluate the quality of the proposals, and so we're not in any way dictating which proposals will be funded. Paul, or someone else from the NIOSH grants program, would you like to step in?

**DR. KUBALE:** Dr. Ward, this is Travis Kubale. I would just agree that, there is a separate, you know, scientific and technical review process, you know, for that purpose. You're exactly right.

**DR. ROBISON:** This is Allen Robison. I would just add that the ideas and input that you come up with today, we will take that and use that as we move forward with subsequent funding opportunity announcements. Thanks.

**DR. WARD:** So with respect to the first area, maybe we should kind of review what, at least what I think are the major themes that are emerging, and then we can see what is missing. So I think one major theme that's emerging, that there seems to be a lot of interest in, is the question of the newly emerging conditions, that are not currently covered conditions but may be emerging in the population and could be identified by research, either using existing data, specifically using existing data sources. So that seems like, you know, something that the committee would want to recommend.

A second important area is doing research on mental health conditions related

1	to or doing more research on mental health conditions related to exposure and also
2	the and one thing that came across very strongly there was the idea that the way
3	we've been categorizing exposure in terms of chemical and physical toxins may not be
4	appropriate for the exposures that impact mental health outcomes.
5	And also I guess the question that Dr. North raised about research, is there a
6	way to do research, population-based research, where we would be looking at actual
7	psychiatric diagnoses rather than symptoms. So that could all be those could be
8	combined into one research topic on mental health outcomes related to World Trade
9	Center exposures.
10	<b>MS. SIDEL:</b> What about the techniques they use for to treat mental health.
11	You know, for example use the things like EMDR for post-traumatic stress disorder
12	rather than just psychotherapy?
13	<b>DR. WARD:</b> Well, I think that might be more appropriate conceivably under the
14	third, the third research area, which is critical research knowledge gaps relative to
15	effective treatment of World Trade Center-related conditions.
16	MS. SIDEL: I see. Okay, thank you.
17	<b>DR. WARD:</b> And then the third area, I think, is was related to biomarkers of,
18	specifically cancer but other potentially other chronic conditions related to World
19	Trade Center exposures. And that captures a specific suggestion that Dr. Crowley made
20	related to DNA and epigenetic effect. It captures a it captures what Dr. Rom talked
21	about in terms of biomarkers related to asthma, potentially.
22	And the last the fourth kind of major area that I'm trying to you know, I'm
23	trying to distill these into a smaller number of larger points, would be the whole
24	question of immune system disorders, which would include autoimmune diseases and
25	cancers of the relating to the immune system, like sarcoidosis.
26	So does anyone think that's a good synthesis of the four major topics we might
27	want to identify under the first point?
28	DR. TRASANDE: Hi. Can I sorry to interrupt. This is Leo Trasande. I just
29	joined.
30	DR. WARD: Hi, Leo.
31	<b>DR. TRASANDE:</b> Hi, how are you?
32	DR. WARD: Good.
33	DR. MIDDENDORF: Welcome, Leo.
34	MS. FLYNN: Liz?
35	<b>DR. WARD:</b> Excuse me, go ahead.
36	MS. FLYNN: I'm sorry. This is Kimberly, and Leo arrived just in time. I would
37	suggest that we add health impacts, particularly physical health impacts, to the
38	pediatric population.
39	<b>DR. WARD:</b> Good. And I would suggest maybe we broaden it a little bit to say

vulnerable populations, and that would be pediatric and also potentially the groups that -- well, I guess that could be pediatric but the study of children and young adults or people who were exposed to the World Trade Center at a relatively early age. There may be other vulnerable populations as well.

**MS. HUGHES:** Hi, this is Catherine Hughes. I think I'm the only residential mom on the committee. I think it can't -- it has to deal with the physical health, 'cause, you know, when they say they studied -- that there's been studies on the population, a lot of it has been mental, and there's been really a deficiency on the physical health for children. And I mentioned this at the last survivors' meeting. You know, we had the clinical guidelines, first for adults, went through iteration 1, iteration 2. Finally after much fighting, they got guidelines for children. I mean, it's been a battle to get children recognized in this entire process, and we've really done them a disservice over the years. So children have -- you know, they have to be there in terms of the physical health as well. That's all.

DR. WARD: Good. Good.

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**MS. SIDEL:** You know, in the children's category, babies that were born during that time, I know of a few people that have concerns about, you know, their children that were conceived while one of the parents was working at the World Trade Center after the attacks. They have, you know, different issues that affect children that they had as well before, you know, 9/11, don't have.

**DR. WARD:** Okay, so that -- but I think in terms of, Paul, where you noted pediatric disease and other, I think what we want to do is maybe make that one little more broadly as effects -- health effects of exposure, World Trade Center, during gestation or early life, something like that. Then in parentheses, childhood and adolescence or something like that, so we're kind of broadening it.

And looking at the, at the web version, it looks like you have most of the points we've -- so under item -- under point 1, we really -- I mean, like the overall subhead is Dr. Howard's question, and then each of these areas is a separate kind of research recommendation. So newly emerging uncovered conditions is one research recommendation, and then more research on mental health conditions is the second recommendation. And they're all under item 1. Or they're all under, you know, his subhead 1.

**DR. MIDDENDORF:** Okay, I don't have that up, so.

**DR. WARD:** Well, I see it. Oh, you don't have the -- well, that's okay. You can just put a header like subhead 1 or something or...

**DR. MIDDENDORF:** Okay. So all of these go under his?

DR. WARD: His item 1, I think. Yeah.

DR. MIDDENDORF: Okay.

DR. WARD: What I'm thinking is maybe we should just -- we should see if

1	there's if this captures the major themes that we want to prioritize or if so and
2	maybe what we could do is well, I guess you'll send these out, after you finish
3	reformatting them, and then we can maybe look at them and see if we've captured
4	everything and if we've got the wording close to correct.
5	DR. ALDRICH: This is Tom Aldrich again. I think one thing that isn't included in
6	that list is exposure assessment.
7	DR. WARD: Okay.
8	<b>DR. ALDRICH:</b> I forget how that's based but the quantification of exposure.
9	DR. DEMENT: This is John Dement. I really second that one. It came about in a
10	number of different discussions. It seems that early on we had a lot of exposure
11	assessment that was really innovative, but later on it seems that we've sort of settled in
12	on what was done before and not really looked at some issues of differences in the
13	particularly higher-risk populations not yet identified. So I think that's really narrow
14	and it really still needs to be up on this list. It really deals with etiology as well.
15	DR. MIDDENDORF: So how would you suggest I word this?
16	<b>DR. DEMENT:</b> Well, I think: expanded and integrated exposure assessment.
17	And I really like the comments about the fact that we've principally looked at physical
18	exposures and largely respiratory, but it really needs to be that concept needs to
19	be needs to be broadened out. And I think it has some validation at least of some of
20	the exposure assessment. It seems to be validated by the results that we've seen,
21	particularly respiratory. But the network needs to be expanded out to some of the
22	other health conditions.
23	DR. WARD: And I think what I would do is I would take that verbiage, that John
24	just suggested, and make that a major bullet, and take cognition out of it. I think I'm
25	not sure what you know, I think, I think we still I mean, I'm not I'm not sure if
26	well, I guess we can list cognition as a separate research topic, 'cause it sounds like we
27	don't really I mean, we could, we could kind of group it under newly emerging
28	uncovered conditions or under mental health conditions, even though Dr. North
29	pointed out that the causes of problems with cognition could be either physical or
30	psychological, or we could keep it as a separate topic. I'm not sure, you know, where
31	it's maybe to me it makes the most sense to kind of group it as under the newly
32	emerging for because it's I don't know how strongly it will stand alone as
33	DR. DEMENT: Right.
34	<b>DR. WARD:</b> a major research theme.
35	DR. DEMENT: Right.
36	DR. WARD: But we can, we can talk about that. But I definitely don't I don't
37	think it should be under the I think the exposure assessment is a very strong theme
38	and it should stand I think it should stand alone.
39	<b>MS. FLYNN:</b> Liz, this is Kimberly. I'd like to just jump in on exposure

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1	according to the second s
1 2	assessment. I just I guess I just want to reemphasize the point that, particularly for
∠ 3	the survivor community, there is no reliable data set of environmental measurements.
3 4	So I'm assuming that one would come at exposure assessment for that community differently. One suggestion is biomarkers of long-lived exposures, which I know is
5	being done in the World Trade Center adolescent study by Dr. Trasande. So I don't
6	know if you want to put okay, that makes sense, put it under biomarkers, but that
7	would be a marker of exposure and not a marker of disease.
8	<b>DR. MIDDENDORF:</b> I'm going to try and send this out to everybody now so
9	people have a chance to look at it. (pause) I sent it out. Hopefully people are receiving
10	it. And what I sent out was the major themes and the grouping, one through six, under
11	Dr. Howard's charge number 1.
12	<b>DR. WARD:</b> Well, it hasn't come into my in-box yet.
13	DR. MIDDENDORF: Okay.
14	DR. WARD: Has anyone else received it?
15	MS. MEJIA: Still waiting.
16	DR. ALDRICH: Not yet.
17	<b>DR. MIDDENDORF:</b> I re-sent it just to see make sure it wasn't caught off
18	somewhere.
19	<b>DR. WARD:</b> I guess, Paul, in the worst case, if we can't receive it, maybe we
20	can just read through them one by one, and those people who have I don't know why
21	it's not coming in.
22	<b>DR. MIDDENDORF:</b> Yeah, Dr. North is again trying to get in but she's not able
23	to be heard.
24	MS. SIDEL: I just got my email.
25	<b>DR. MARKOWITZ:</b> Yeah, I just got the email too.
26	<b>DR. MIDDENDORF:</b> Dr. North says: I'm trying to say that the exposure
27	measurement should be specifically annotated to include a unique line of study for
28	mental health.
29	UNIDENTIFIED SPEAKER:   agree;   think it's really interesting.
30	DR. WARD: Okay, so
31	DR. MIDDENDORF: Okay, we're having some difficulties here. Both Dr. North
32	and Dr. Talaska are having difficulty being heard. If the operator is on the line, please
33	make sure that Glenn Talaska and Carol North are added to the speaking line.
34	THE OPERATOR: They have open lines, sir.
35	DR. MIDDENDORF: They do have open lines. Can you hear me?
36	DR. NORTH: Hi, this is Carol; can you hear me?
37	DR. MIDDENDORF: Yes.
38	DR. TALASKA: Can you hear Glenn?
39	DR. MIDDENDORF: Yes, we can hear you, Glenn.

1       DR. TALASKA: Oh, good, finally. God, I was yelling. I wanted to add that         2       DR. NORTH: This is Carol; can you hear me?         3       DR. TALASKA: May I talk?         4       DR. MIDDENDORF: Yes, Carol, we hear you, too.         5       DR. NORTH: Thank you.         6       DR. TALASKA: This is Glenn Talaska. I wanted to just reinforce what Paul was saying about exposure assessment and the strategies that need to be developed as a result of the exposure assessment that was done after 9/11.         9       I think if everyone remembers, you know, one of the the exposure         10       assessment that was done on during 9/11 was amazingly poor. And one of the things that would just be we really do need to develop a strategy coming out of what markers were measured and a critical review of what was done for the exposure assessment during 9/11.         14       John and I did that to a limited extent with the papers that we had but we did that in a period of a week. And a research study, which would look at that and try to integrate and make suggestions about which markers for which types of exposures, would be very useful, I think. It would be very well, it would be very useful if something like this ever happens again.         19       It certainly has been rolled in from the deep water horizon or the other disasters that we have, including hurricanes. We don't really have a strategy for doing that yet, and I think that's important. And it would include using or developing which long-term markers, which could be gotten from the autopsy studies that are being done currently, could predict or could be used to indicate which sort		67
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	27	DR. WARD: I guess the question I have is I mean, I mean, I'm not sure, Glenn,
29 mean, it relates to a lot of these different areas, but it seems like it's more like writing a	28	that the way you phrased that, it kind of lends itself to a research funding proposal. I
a mean, it relates to a lot of these different areas, but it seems like it s more like writing a	29	mean, it relates to a lot of these different areas, but it seems like it's more like writing a
30 paper or a review. And I think what we're trying to do is come up with topics that really	30	paper or a review. And I think what we're trying to do is come up with topics that really
31 will benefit this population rather than the broader not that it's not important to use	31	will benefit this population rather than the broader not that it's not important to use
32 the information that we learned at the World Trade Center to benefit the broader	32	the information that we learned at the World Trade Center to benefit the broader
33 fields but I think we're talking we're talking about doing research within the World	33	fields but I think we're talking we're talking about doing research within the World
34 Trade Center population. So I mean, I think what you're talking about fits in one of	34	Trade Center population. So I mean, I think what you're talking about fits in one of
35 these broad categories but I'm not sure it would be a stand-alone priority.	35	these broad categories but I'm not sure it would be a stand-alone priority.
36 <b>DR. TALASKA:</b> Well, no, I was really seconding what you what we were		DR. TALASKA: Well, no, I was really seconding what you what we were
37 talking about. I could hear you; I couldn't talk. But what John Dement said		talking about. I could hear you; I couldn't talk. But what John Dement said
38 <b>DR. WARD:</b> Okay. Okay, yeah, okay. And so one suggestion, just in the		
39 interest of trying to move, you know, to a unfortunately we have this one meeting	39	interest of trying to move, you know, to a unfortunately we have this one meeting

1 and we want to come up with final recommendations, and it's, you know, it's -- I want 2 to make sure that we get to look at all of the four topics. So if we look at the email that 3 Paul sent out, maybe what we should start doing -- one thing -- I mean, we could make 4 a motion that these general topics would be the six priority areas we want to make 5 recommendations on or we could make a motion that a specific additional area be б added before we word-smith the final product, and maybe move on to the second 7 area, because I think we'll want to do the prioritization after we've gone through all of 8 the -- all of the four charge areas. 9 MS. HUGHES: I have a question -- Catherine Hughes. Should we also put them 10 in priority order, like -- 'cause right now they're in order 1 through 6, and people might 11 think that it's based on priority. 12 DR. WARD: Well, I guess we can. We could prioritize within each area, and 13 then prioritize across the different areas, if the group would like to do that. 14 MS. HUGHES: 'Cause right now it's -- you know, it looks like biomarkers is 15 number 3 but biomarkers is really important that it should -- you know, it looks like it 16 should probably be moved up. 17 **DR. MIDDENDORF:** I'm going to suggest that at this point you just get out your 18 ideas and what you think the specific, specific wording for each of these would be. And 19 then at the very end, when you have all of the ideas or all of the specific topics that you 20 want to address, then prioritize across all of the groups rather than just looking at each 21 individual group. So at this point, let's just make sure that we get the wording in 22 numbers 1, 2, 3, the way you want it, and then at the very end, go through and look at 23 all of the topics and then prioritize. 24 MS. MEJIA: Liz, this is Guille. I'm looking at number 2 in terms of the research 25 for mental health conditions, and you list two exposures, physical and chemical 26 exposures. And obviously not being a researcher, is there any way to include the --27 maybe the visual and audio exposures that were experienced be different populations, 28 in particular I'm thinking about our, as someone else mentioned earlier, the 911 29 operators who didn't -- weren't physically at Ground Zero but certainly had to handle 30 hundreds of calls coming in, and it would be interesting to see the impact that it has on 31 this population. 32 DR. WARD: Yeah, and I think this one probably needs to be rephrased, and I 33 would love it if somebody -- I mean, if somebody would make a recommendation for a 34 rephrasing of this one that, you know, better captures the intent. I don't know if, Carol, 35 you're on and can talk but you might be the best person to do that. 36 DR. NORTH: Well, I tried to write something. I'd sent it. 37 **DR. MIDDENDORF:** Yeah, the problem is I can't listen to what everybody is 38 saying and type that in, and then go back and look at what you're sending back in 39 emails; it just isn't working very well.

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1	<b>DR. NORTH:</b> Now that I can talk, would you like me to read it?
2	DR. MIDDENDORF: Yes.
3	<b>DR. NORTH:</b> Okay. I got to find it here. Okay, exposures. That's what we're
4	talking about, right?
5	<b>DR. WARD:</b> It's number 2, the more research on mental health conditions in
6	relation to exposure.
7	<b>DR. NORTH:</b> Right. So you can't necessarily assume the exposures for mental
8	health are the same as those for medical illnesses, so we need research to characterize
9	disaster-related exposures
10	DR. MIDDENDORF: Wait, wait. Go slowly. Research to what?
11	DR. NORTH: Characterize disaster-related exposures in relation to specific
12	DR. MIDDENDORF: Wait, wait, wait. I'm trying to type. I'm not that good a
13	typist. Research to characterize disaster-related
14	DR. NORTH: Exposures.
15	DR. MIDDENDORF: Okay.
16	DR. NORTH: In relation to specific psychiatric disorders such as
17	DR. MIDDENDORF: Whoa, whoa, whoa. Okay.
18	DR. NORTH: PTSD.
19	DR. MIDDENDORF: Say it again, PTSD?
20	DR. NORTH: PTSD, major depressive disorder, recognizing that exposures
21	may
22	DR. MIDDENDORF: Wait a minute. Major depressive disorder. Okay.
23	DR. NORTH: Recognizing that exposures may be different for different
24	psychiatric disorders.
25	DR. MIDDENDORF: Recognizing that exposures may be different?
26	DR. NORTH: For different psychiatric disorders.
27	DR. MIDDENDORF: I missed a for.
28	<b>DR. NORTH:</b> So the bottom line, the knowledge gap is that we don't know how
29	disaster-related exposures relate to psychopathology.
30	<b>DR. ALDRICH:</b> This is Tom Aldrich. Doesn't that belong under item 6?
31	<b>DR. WARD:</b> Tom, it could but I think the original intent was also to call for
32	more research on mental health disorders in general, including the including the
33	context of looking at both diagnoses and symptoms.
34	DR. ALDRICH: Yes.
35	DR. WARD: So and there will inherently be some overlap between some of
36	these. I mean, there's going to be overlap between biomarkers and exposure
37	assessment, but I think what we want to do is really identify where we see that a gap
38	exists. And what I was sensing is that there's a gap there's a research gap in the
39	understanding of the impact of the exposure on mental health disorders in general, and

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1	then more specifically, there's a need to better characterize exposures in relation to
2	risk of developing mental health disorders. And so
3	<b>DR. ALDRICH:</b> I agree but I think those are separate topics. And right now in
4	the document it looks like that whole issue of increased attention to mental health
5	disorders has been eliminated and just gone down to potential to mental health
6	disorder exposure or mental health exposure
7	DR. WARD: Right.
8	<b>DR. ALDRICH:</b> as it relates to mental health. There are two separate issues,
9	and I think the exposure part of it belongs as part of number 6.
10	DR. NORTH: Yes.
11	<b>DR. ALDRICH:</b> And yes, there will be overlap but that's okay.
12	DR. NORTH: And then the research on mental health conditions would include
13	the point I made about symptoms versus diagnosis.
14	<b>DR. WARD:</b> Right, so I guess what we need is a separate we need a draft of a
15	separate point on the mental health conditions research. And then we need to see
16	how well the point we've already drafted on the exposure assessment for mental
17	health-related exposures can be captured under exposure assessment.
18	<b>DR. ALDRICH:</b> I'd like to make a suggestion about item 1, okay?
19	DR. WARD: Okay.
20	DR. MIDDENDORF: Well, can we finish up on 2 and 3 on in the mental
21	health?
22	<b>DR. WARD:</b> Yeah, 'cause I do think what we want to do is when we make the
23	suggestions, we really want to make it framed as close as possible to how you'd like to
24	see the sentence written.
25	<b>DR. ALDRICH:</b> I have that for item 1.
26	<b>DR. WARD:</b> Okay, but we want to finish up on I think Paul wants to finish on
27	item 2 before we move on to item 1. Okay, to finish on item 2, I think we need a
28	sentence from Carol on mental health research.
29	<b>DR. MIDDENDORF:</b> Do you want this to be like item number 3, or do you want
30	it to be included in number 2?
31	<b>DR. WARD:</b> I guess at this point I would make the mental health research
32	number 2, and then it sounds like the exposure assessment related to mental health is
33	going to be a sub-bullet under the expanded integrated exposure assessment.
34	DR. NORTH: That would be fine.
35	DR. WARD: But
36	<b>MS. SIDEL:</b> Can I just ask like why you wouldn't be more specific in 2, and just
37	say like some of them you know, mental health conditions such as cognitive
38	disorders?
39	<b>DR. ALDRICH:</b> I thought the concern about that was that cognitive disorders

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1	may be mental health, may not be mental health. I mean, it's all about whether it's,
1 2	whether it's a psychological injury or a physical injury.
3	DR. NORTH: Yes.
4	DR. WARD: That was the concern.
± 5	<b>MS. SIDEL:</b> But then maybe it should be just broken up into its own separate
6	set, because that is a concern. But the way this is it's like they don't have to look at
7	cognitive.
8	<b>DR. ALDRICH:</b> I was going to suggest that as part of number 1.
9	<b>DR. WARD:</b> That's where I was seeing it, and we can see it
10	MS. SIDEL: Okay, that's good.
11	<b>DR. WARD:</b> more specific. I mean, it sounds like renal disease is another one
12	that's
13	<b>DR. ALDRICH:</b> Right, so look, under number 1, get rid of the second uncovered,
14	because that's ambiguous.
15	MS. SIDEL: Yes.
16	<b>DR. ALDRICH:</b> Then we'll leave that one but the second one. No, leave that
17	one. Newly emerging uncovered conditions that could be proven or disproven by
18	research or existing data sources, for example, cognitive disorders, autoimmune
19	diseases, renal diseases
20	<b>DR. MIDDENDORF:</b> Okay, wait a minute.
21	MS. SIDEL: Excellent.
22	DR. MIDDENDORF: Such as
23	<b>DR. ALDRICH:</b> Cognitive disorders, autoimmune disorders, renal diseases and I
24	don't know, want to add in endocrine disorders? I mean, things that haven't been
25	studied.
26	<b>DR. WARD:</b> That sounds good to me.
27	MS. SIDEL: That sounds really good.
28	MS. FLYNN: This is Kimberly, I'm not sure I can be heard, but
29	<b>DR. WARD:</b> You can be heard.
30	MS. FLYNN: Thank you. I'm not entirely sure that these conditions can be
31	proven or disproven by research on existing data sources. I think there would be, for
32	some of these addition I mean, I know I've been piping up about the need to do
33	analysis using existing data sources but cognitive disorders, we're not going to prove or
34	disprove based on existing data sources.
35	DR. WARD: Yeah, so I think the current wording, unless it's changed, is
36	research or existing data sources.
37	<b>MS. FLYNN:</b> Yeah, let's go with that.
38	DR. MIDDENDORF: Okay, so
39	MS. FLYNN: Analysis or analysis of existing data sources?

1DR. WARD: Yeah.2MS. FLYNN: And the other thing I just wanted to roll in here,	I am not sure of
	I am not sure of
3 the extent to which Dr. North's excellent point about diagnostic term	inology applies to
4 children, number 1, for those who experienced the disaster as childre	en, I guess; and in
5 addition, I would say that there has been a lot of mental health resea	rch on children
6 exposed to the disaster. I'm not saying there shouldn't be more. The	ere should be more
7 but the gaps, as Catherine has stated, are largely on: well, let's get th	is with the most
8 critical gaps or on the physical health end. So maybe using the word	adult in the
9 mental health in Dr. North's point, you know, which would also cov	ver potentially,
10 young adults, but major depressive disorders, as I understand, it's no	t something that
11 you would use as a child diagnosis. Please correct me if I'm wrong.	
12DR. NORTH: Sure you would.	
13 MS. FLYNN: You would?	
14         DR. NORTH: I'm not sure I understand the point. I think that	both of my points
15 would pertain to both adults and children.	
16 MS. FLYNN: Really? Okay. But there has Dr. North, there	has been a fair
amount of mental health research on the impact of 9/11 to children.	So I would
18 obviously defer to your, you know, expert judgment on this but	
19 <b>DR. NORTH:</b> Well my, my points are not about whether there	e's been mental
20 health research on adults or children.	
21 MS. FLYNN: Okay.	
22 <b>DR. NORTH:</b> Mine is specifically about the insufficient resear	ch on the meaning
23 of exposures and on assessment of full diagnosis as opposed to symp	
24 MS. FLYNN: Okay. I, I understand what you're saying. I'm le	ss familiar with
25 the application of these very, very serious diagnoses, like major depresented as the application of these very, very serious diagnoses, like major depresented as the application of these very, very serious diagnoses, like major depresented as the application of these very, very serious diagnoses, like major depresented as the application of the series of the application of the series of the application of the series	essive disorder, to
26 children, but, you know, I defer. And also we're talking about people	who are
27 adolescents now so maybe that makes more sense.	
28 <b>DR. MIDDENDORF:</b> Okay, I'll give the people with Macs the c	
29 what we're talking about. I sent out an email with the current wordir	•
30 screen so we might want to give them a minute or two to get their er	nail so they can
31 weigh in.	
32 <b>DR. WARD:</b> And I think, Paul, one thing that didn't get capture	
33 is the objection to proven or disproven, and I would propose that ma	
34that should be further investigated or could be further investigated.	Because I agree
35 that most of the time we never really prove or disprove things.	
36 <b>DR. MIDDENDORF:</b> I was going to bring that up.	
37 <b>DR. WARD:</b> But I think other than that, it seems like this bull	et is capturing
38 something that we think is important.	
39         DR. ALDRICH: I'm the one who suggested proven or disprove	en, and I think it's

1       being kind of wishy-washy to say it's going to be investigated. I mean, the goal is to         2       prove or disprove something. We may fall short of that goal but I don't think we should         3       DR. WARD: What do other committee members think?         5       DR. NORTH: I agree.         6       MS. SIDEL: Yeah, I don't like being wishy-washy.         7       DR. WARD: Okay, so, so are we at the point where we want to go ahead and         8       make a motion on the final wording for point 1, and then have a vote?         9       MS. FLYNN: Can I just         10       DR. MIDENDORF: Has everyone received their email? I think that's the first         11       question.         12       DR. ALDRICH: Well, and add in endocrine diseases.         13       MS. FLYNN: This is Kimberly, what about the word discovered? I just feel that,         14       you know, we need a little more wiggle room here than absolute proof. I offer that as         15       an alternative. You may or may not like it.         16       DR. ALDRICH: I don't like it because it's – it suggests that it's there to be found,         17       and it might not be there to be found. That's why we need to include the possibility         18       that walt had raised earlier in terms of ensuring that the non-covered conditions that         19       MS. FLYNN: Yes, that's good.		73
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	39	<b>MS. SIDEL:</b> Okay, I have to I have to write it for a minute.

1	<b>DR. WARD:</b> Well, I mean, maybe we should back it up a little bit and say
2	something like investigate whether World Trade Center-exposed populations have an
3	increased prevalence of conditions not previously recognized covered by the World
4	Trade Center Health Program. Have an increased because I think that's really the
5	sense, is that we want to know if, you know, by focusing on the things that emerged as
6	World Trade Center-related conditions early in the course of studying what might occur
7	in the population, we might be missing things diseases or conditions that have a
8	longer latency. We could say investigate whether there are newly emerging conditions
9	among World Trade Center-exposed populations.
10	<b>MS. SIDEL:</b> I think that works and that's really what we're trying to do is
11	investigate, and say, you know, just the word of and, you know, make the list of
12	autoimmune disorders, cognitive disorders, renal diseases.
13	<b>DR. WARD:</b> And it could be that that list is really including some conditions
14	that have been raised as concerns but not adequately investigated.
15	MS. FLYNN: Yeah.
16	MS. SIDEL: Well, investigated by the World Trade Center because (multiple
17	speakers) have them say that it's World Trade Center-related.
18	<b>DR. WARD:</b> (Indiscernible) adequate you know, have not been fully
19	investigated in World Trade Center-exposed populations?
20	THE COURT REPORTER: Excuse me, was that Ms. Sidel speaking?
21	MS. SIDEL: Yes.
22	DR. WARD: And then it was Liz.
23	THE COURT REPORTER: Right, yeah.
24	DR. MARKOWITZ: This is Steve Markowitz. I actually don't think we should
25	provide examples of conditions. I think the general category of newly emerging
26	conditions would be sufficient. I don't know I mean, I think the hunches on these
27	named conditions are hunches, and I don't to mention them seems like we're
28	endorsing them as areas that need study more than other conditions that we haven't
29	named. And I don't think that the researchers or that NIOSH need these examples.
30	<b>MS. SIDEL:</b> Okay, the point of it was, though, that there are certain conditions
31	that have been brought to our attention this morning, like Dr. Melius brought up
32	autoimmune disorders. I think the fire department complained about autoimmune
33	disorders. The woman that wrote the letter about her cognitive issues. So those are
34	two specific areas that were thought of that, you know, I certainly would like to see
35	them researched to see if they are in fact related to the World Trade Center. The rest
36	(indiscernible) explore, you know, research cognitive, you know, problems and
37	cognitive issues and autoimmune diseases and renal as possible World Trade
38	Center-related.
39	<b>DR. WARD:</b> This is Liz. I think maybe what we could do that might, and this

	75
1	makes sense to me, is in this bullet really capture the broad theme of: make sure we're
1 2	conducting research and surveillance to capture any newly emerging diseases, but then
3	where we really as a committee feel that there needs to be more research, like if
4	there's a specific area, like autoimmune diseases and immune system dysfunction, we
5	could call that out as a separate bullet point or a separate point, but after due
6	consideration that we really do think that particular area is more important than a
5 7	variety of other areas that we could also highlight. 'Cause I do agree with Steve's point,
8	that if we just make this look based on things that really have been mentioned during
9	this call without kind of, you know, a more reasoned rationale for why we're
10	mentioning these and not others, it's not really very helpful in setting the research
11	direction.
12	MS. FLYNN: Yes, I agree.
13	MS. SIDEL: I agree.
14	<b>DR. WARD:</b> So, Steve, would you like to make a motion with final wording of
15	this bullet number 1?
16	<b>DR. MARKOWITZ:</b> Well, the so Paul just sent around number 6.
17	<b>DR. WARD:</b> Okay. I haven't seen it.
18	DR. MARKOWITZ: Number 6.
19	<b>DR. MIDDENDORF:</b> Yeah, and it shows the two alternatives. One and two are
20	the two versions that I guess the originating version, and then the one that it
21	morphed into.
22	MS. SIDEL: Yeah, I would take out I would definitely take out cognitive
23	disorders, autoimmune disorders, renal diseases. I would definitely undo number 1,
24	because it's, you know, we don't have the research on those things because if we did
25	have the research it wouldn't be an issue now. But it's an issue because it's affecting
26	people, and there's no World Trade Center research on it.
27	<b>DR. MARKOWITZ:</b> Yeah, so that's this is Steve Markowitz. The number 1, if
28	you just take out the examples, number 1 probably captures better what we mean.
29	Uncovered you might want to specify that, you know, conditions that are currently
30	not covered by the WTC program. And investigated by research or analysis, well,
31	actually that's not either/or.
32	<b>DR. MIDDENDORF:</b> Are you suggesting an and, slash or?
33	<b>DR. ALDRICH:</b> Why not just go with number 2, adding the word uncovered
34	before conditions? And leaving out everything after populations?
35	DR. MARKOWITZ: Yeah, that's fine.
36	DR. MIDDENDORF: Emerging conditions.
37	DR. ALDRICH: Uncovered conditions.
38	<b>DR. MIDDENDORF:</b> Well, one of the suggestions was to use the term not
39	covered by the WTCHP.

1       DR. MARKOWITZ: That's better.         2       DR. MIDDENDORF: Okay. And what else goes away, just after populations?         3       DR. MARKOWITZ: Right, yeah.         4       DR. MIDDENDORF: Investigate – so it would read: Investigate whether there are newly emerging conditions not covered by the WTCHP among WTC population.         6       DR. ALDRICH: I like it. It's vague, it's broad, that's good.         7       DR. MIDDENDORF: I want to send this out to everybody so they know exactly what it is. Is this the motion you're making? Is this the motion?         9       DR. MARKOWITZ: Sure, yes. This is Steve Markowitz. Yes, I'd make that motion.         11       DR. MARKOWITZ: Sure, yes. This is Steve Markowitz. Yes, I'd make that motion.         12       DR. MARKOWITZ: No, we to vote.         14       DR. WARD: And we have to vote.         15       exactly what it says. This is number 7 coming your way. I'm just going to point out that we have about two and a half hours left, and that includes time for a little break, here, fairly soon.         18       DR. WARD: Well, hopefully we're shaking out the process a little bit so we'll be faster on the others, hopefully. So let's see, everybody has 7.         19       faster on the others, hopefully. So let's see, warkowitz – I would disagree, actually, because if NIOSH were to set this as a research area and, you know, it would invite proposals that are going to have to plausibly address certain emerging conditions by way of methods or –         18       DR. MARKOWITZ: N		76
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39 consultation from rheumatologists. And they are doing a really fine job.		
	39	consultation from rheumatologists. And they are doing a really fine job.

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1	<b>MS. SIDEL:</b> I would okay, well, that's good. I'm really glad to hear that but I
2	just meant like and you know, I'm not in the FDNY program; I'm in the, you know, the
3	responder program, so I just know that people that have been really frustrated because
4	they have had problems that are very likely World Trade Center-related, that they
5	haven't been able to either get treated for it or even get a referral for it because it's not
6	part of the program. And, you know, my thought is that the reason that some of these
7	things aren't part of the program is because it's above the first level of (indiscernible).
8	It's not necessarily their area of expertise.
9	<b>DR. ALDRICH:</b> But my point is but the system, the system has worked. The
10	prior the prior request for proposals was adequate to elicit that proposal even
11	though there were no rheumatologists on any of the research staffs. And so this type
12	of process is working.
13	MS. SIDEL: Okay, but people
14	<b>DR. WARD:</b> Okay. I think we have a motion.
15	DR. MIDDENDORF: Okay, first off, I need to ask, Julia, can you be heard now?
16	Julia's been trying to say something and hasn't been able to get through.
17	<b>DR. WARD:</b> I mean, I would say that we should call for a vote on this motion
18	'cause I think we've heard a lot of the perspectives that we were expressing before, and
19	it's really a question of whether the you know, this is I don't think further
20	discussion is necessarily going to be productive. I think it's really a question of whether
21	the majority of or you know, the committee, how the committee as a whole feels
22	about this. I guess if we get a really divided vote, then we could have more discussion.
23	But if there's, if there's (indiscernible) on it, we may need to we should move on to
24	other points that may be equally or more important.
25	<b>DR. MIDDENDORF:</b> Yeah, before we have a vote, though, I need to make sure
26	that everybody has had a chance to be heard.
27	DR. WARD: Right, right.
28	<b>DR. MIDDENDORF:</b> And Julia is not into the meeting as yet. I'm assuming she
29	can hear but she can't be heard.
30	DR. WARD: Right.
31	<b>DR. TRASANDE:</b> Paul, this is Leo. I'm just confirming I received 7.
32	<b>DR. MIDDENDORF:</b> Okay, great. Is there anybody who has not received
33	number 7?
34 25	DR. QUINT: I've received 7 but I can't be can you hear me?
35	DR. MIDDENDORF: Yes.
36	DR. QUINT: Oh, can you hear me now?
37	DR. MIDDENDORF: Yeah.
38 20	DR. QUINT: Okay, it's Julia.
39	DR. MIDDENDORF: Okay, great.

1 **DR. QUINT:** The question I have is whether or not the uncovered conditions or 2 the newly emerging conditions are being systematically captured. All I heard was that, 3 you know, just discuss -- some things were discussed at meetings but I haven't -- is 4 there a method now for capturing these uncovered conditions? Otherwise, you know, 5 there's no -- what are we investigating? б DR. MARKOWITZ: This is Steve Markowitz. You know, one of the ideas -- the 7 proposal for a priority area that Dr. Melius made was to improve the surveillance -- the 8 performance of the current -- the systems, the Registry and the Health Program. So I think that would, if done properly, that would address that issue. If there were more 9 10 sensitive surveillance, then the signals from the populations would be appropriately 11 detected, and that would provide some data for newly emerging conditions, which 12 ones, which ones to pick. 13 DR. QUINT: I agree, and so maybe we should add systematically document and 14 investigate, because, you know, it's not clear that the surveillance systems are working 15 adequately now, so the investigate newly emerging diseases doesn't have much 16 meaning. And there's not a good feed in the system for that. 17 **DR. WARD:** I think yes and no. I think the original intent was both to capture 18 the opportunity of surveillance and the opportunity of research. So for example, you 19 may not approach -- you may approach this in a surveillance way or you may actually 20 propose to do a study looking at biomarkers that would reflect some newly emerging 21 condition that you hypothesize for other reasons. So I, I think the -- what we want to 2.2 do is -- I mean, to me the key -- the essence is the question of whether there are newly 23 emerging conditions, and we don't necessarily need to be more specific about it being 24 surveillance or other types of research. 25 DR. QUINT: Okay. 26 **DR. ALDRICH:** I agree with that. I think that if we make it too specific, that 27 leaves out some innovative proposal that somebody's been thinking about, and if it 28 doesn't happen to include surveillance, they will think they won't be able to get funded 29 through this mechanism. 30 DR. QUINT: Well, I guess I was concerned about how they identify them as 31 emerging. What's the, what's the source of -- you know, anybody can say something is 32 emerging but, you know, what is the source of that information? But okay, I won't 33 pursue that. 34 DR. MARKOWITZ: This is Steve Markowitz. I think that's a really good point, 35 but I do think it's -- if there's a -- somewhere we're going to get to another 36 recommendation about surveill -- improved surveillance. 37 **DR. QUINT:** Oh, okay. 38 DR. MARKOWITZ: And I think that would be -- that would answer, at least 39 partly answer, that, you know, detection of emergents.

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1	<b>DR. QUINT:</b> Okay. Great, thanks.
2	<b>DR. TRASANDE:</b> This is Leo. Can I ask a clarifying question, because I cut in and
3	out for the past 45 minutes.
4	DR. MIDDENDORF: Please do.
5	DR. TRASANDE: Numbers 1 through 7 in various emails you sent, I assume
6	number 7 is the is what we're debating now, and the other six have been voted on?
7	<b>DR. WARD:</b> No. We still need to vote on the others.
8	DR. MIDDENDORF: Wishful, wishful thinking, Leo.
9	DR. TRASANDE: Okay.
10	<b>DR. MIDDENDORF:</b> This will be the first vote we take.
11	DR. TRASANDE: Okay. Thank you.
12	DR. MIDDENDORF: The other emails were just trying to develop thoughts and
13	ideas. And because there are numerous people who cannot see the, the web, because
14	they have Macs and it's just not working, for them I'm just sending it out in an email so
15	people can see exactly what the wording is, and also to try to keep them up to speed
16	with summarizing the information that has been discussed. So, Liz?
17	DR. WARD: Yes.
18	<b>DR. MIDDENDORF:</b> Did you want to call for the vote? I think we had a motion
19	and a second.
20	<b>DR. WARD:</b> Well, I mean, you know, I did I was prefacing the point that they
21	may not be newly emerging but I think NIOSH probably will get the, the sense of what
22	we're talking about. They don't necessarily have to be newly emerging. They could be,
23	you know, just previously unrecognized or
24	<b>MS. SIDEL:</b> That's a good way to put it.
25	DR. NORTH: Yeah.
26	<b>MS. SIDEL:</b> That would be more accurate because a lot of things, you know,
27	has been around forever but it's just that nobody was talking about it or recognizing it
28	or getting treated for it.
29	<b>DR. WARD:</b> All right, (indiscernible) unrecognized conditions associated with
30	World Trade Center exposures that are not covered by
31	(Interference)
32	DR. WARD: Okay, somebody's not muted and we're hearing their background
33	noise. Hello? Okay.
34	DR. MIDDENDORF: So you're changing the motion; is that
35	DR. MARKOWITZ: Yeah.
36	<b>DR. MIDDENDORF:</b> Okay. It was either Steve or Tom that
37	<b>DR. MARKOWITZ:</b> That friendly amendment is accepted by the proposer.
38	DR. MIDDENDORF: Okay, so how does it read?
39	DR. MARKOWITZ: Can someone read it?

1       DR. WARD: Investigate (indiscernible) that are previously unrecognized conditions associated with World Trade Center exposures but are not - that are not listed as covered conditions.         3       DR. MARKOWITZ: Yeah, they're not currently identified         5       DR. MARKOWITZ: ' identified as WTC-covered conditions.         6       DR. MARKOWITZ: - identified as WTC-covered conditions.         7       DR. WARD: Yeah.         8       DR. ALDRICH: Could you make it previously unrecognized or newly emerging?         9       DR. MIDDENDORF: Okay, so I didn't catch, quite, the tail end of the         11       DR. MARKOWITZ: Let's see, working still off what Paul sent as number 7, right?         12       propose the final language?         13       DR. MARKOWITZ: Okay, so         14       right?         15       DR. WARD: So I think the part that's not that we're somebody proposed         14       adding we were I think we were at investigating whether there are previously         19       adding we were I think we were at investigate whether there are newly         21       DR. MARKOWITZ: Sight, right, okay. Set up an investigateon         22       DR. MARKOWITZ: Right, right, okay. Set up an investigateon         23       DR. MARKOWITZ: Sight, right, okay. Set up an investigate whether there are newly         24       DR. MARKOWITZ: Sight, right, o		80
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		suggested adding: previously unrecognized health conditions associated with WTC
39 <b>DR. MARKOWITZ:</b> No, I think that's just that just obfuscates it.	38	exposures not covered by the WTCHP among WTC populations.
	39	<b>DR. MARKOWITZ:</b> No, I think that's just that just obfuscates it.

1       DR. MIDDENDORF: Okay, you want to take out associated with WTC         2       exposures.         3       DR. WARD: I'm fine with that. I suggested it and I'm fine with taking it out.         4       DR. MIDDENDORF: Okay. So here's, here's what I have: Investigate whether         5       there are newly emerging health conditions or previously unrecognized health         6       conditions not covered by the WTCHP among WTC populations.	
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conditions not covered by the wrein among wre populations.	
7 I'm going to send this out in an email for those this will be number 8.	
8 MS. SIDEL: Poor Paul.	
9 <b>DR. WARD:</b> Poor us because we still have this is still on number 1.	
10     DR. MIDDENDORF: Yeah.	
11     DR. ALDRICH: You guys are doing great. Hang in there.	
12     DR. MIDDENDORF: Has anybody received number 8 yet?	
13 <b>DR. WARD:</b> I have not.	
14 <b>DR. MIDDENDORF:</b> Okay.	
15 <b>DR. QUINT:</b> Are your electronics frozen out east?	
16 <b>DR. MIDDENDORF:</b> We're in a nice spot here in Atlanta, so I don't think that's	
17 our problem. I am going to resend 8.	
18 UNIDENTIFIED SPEAKER: I just got it, Paul.	
19 <b>DR. MIDDENDORF:</b> Has everyone received it?	
20 MS. FLYNN: Not quite yet. This is Kimberly. I haven't received it but I've hea	ď
21 the language, and I think we should move forward on it.	
22 DR. MIDDENDORF: Is there anyone who feels like they want to wait until the	/
23 have the email?	
24   DR. TRASANDE: I suggest we vote.	
25 DR. MIDDENDORF: Okay, Liz?	
26 <b>DR. WARD:</b> I think we should vote. So Paul, are you going to do the roll call	
27 vote?	
28   DR. MIDDENDORF: Yes, I will.	
29   DR. WARD: Okay.	
30 <b>DR. MIDDENDORF:</b> Okay. Tom Aldrich? You can vote yes, no or abstain.	
31 DR. ALDRICH: I vote yes.	
32 <b>DR. MIDDENDORF:</b> Okay, John Dement. (pause) Okay, I'm going to pass on	
33   John at the moment.	
34     DR. DEMENT: Hello?	
35 DR. MIDDENDORF: Hello, John?	
36 DR. DEMENT: Yes. I voted yes.	
37         DR. MIDDENDORF: Oh, okay. We just couldn't hear you. Kimberly Flynn.	
38 MS. FLYNN: Yes.	
39     DR. MIDDENDORF: Bob Harrison.	

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1	DR. HARRISON: Yes.
2	<b>DR. MIDDENDORF:</b> Catherine Hughes.
3	MS. HUGHES: Yes.
4	DR. MIDDENDORF: Steve Markowitz?
5	DR. MARKOWITZ: Yes.
6	DR. MIDDENDORF: Guille?
7	MS. MEJIA: Yes.
8	DR. MIDDENDORF: Carol.
9	DR. NORTH: Yes.
10	DR. MIDDENDORF: Julia.
11	DR. QUINT: Yes.
12	DR. MIDDENDORF: Bill.
13	DR. ROM: Yes.
14	DR. MIDDENDORF: Susan. Susan?
15	MS. SIDEL: Yes, sorry.
16	DR. MIDDENDORF: Okay. Glenn?
17	DR. TALASKA: Yes.
18	DR. MIDDENDORF: Leo?
19	DR. TRASANDE: Yes.
20	DR. MIDDENDORF: Liz?
21	DR. WARD: Yes.
22	DR. MIDDENDORF: And I don't think Virginia's with us anymore. Okay one,
23	two, three, four, five, six, seven, eight, nine, ten, 11, 12, 13, 14 yeses. Zero noes, zero
24	abstain. Okay. Motion passes.
25	DR. WARD: So I would propose that the next one we talk about is mental
26	health research, and hopefully we have some suggested new language on that from
27	Dr. North that we can that Paul can email?
28	DR. MIDDENDORF: Okay, well, do you want to take a quick break or do you
29	want me to help out if we get the wording and I'll email it out, and then we'll take a
30	short break?
31	DR. NORTH: Good.
32	DR. MIDDENDORF: Yeah, we're set up for a break at 2:30; it's already after
33	2:30. Does that sound like a good plan, Liz?
34	DR. WARD: That sounds fine.
35	<b>DR. MIDDENDORF:</b> Okay. So we'll try to hammer out the language. Carol, do
36	you have some suggestions?
37	<b>DR. NORTH:</b> I would probably thought was what I sent you before. Is that
38	what we're on? I'm lost as to which document we're on.
39	<b>DR. WARD:</b> Okay, we're on I went back to the version 5 that Paul previously

1	sent.
2	DR. NORTH: Okay.
3	<b>DR. WARD:</b> Where we have the list of all the general suggested topics. And I
4	was going to try to consider them in order. So if anybody has time during the break to
5	look at any of them and suggest some of them clearly several of them need word-
6	smithing. So if anyone wants to send any suggestions to Paul, they should.
7	<b>DR. MIDDENDORF:</b> I would prefer that they not email anything to me. I think
8	that the suggestions need to be made verbally.
9	<b>DR. WARD:</b> Okay. Okay. So write them down so that you can read them off
10	when we're back on the phone.
11	Okay, so we'll go ahead and take a ten-minute break.
12	DR. MIDDENDORF: Okay, and Carol is going to be thinking about wording for
13	the mental health.
14	DR. NORTH: I'm working on it.
15	DR. MIDDENDORF: Okay, great. So what time are we returning?
16	<b>DR. WARD:</b> My clock says now 2:38, so I guess at 2:58, which is no, that's 20
17	minutes.
18	<b>DR. MIDDENDORF:</b> Yeah, just do it 2:48?
19	DR. WARD: Yeah, so yeah.
20	DR. MIDDENDORF: Okay, 2:50.
21	DR. WARD: Okay. Thanks.
22	(Recess in proceedings, 2:38 until 2:50 p.m.)
23	
24	DR. MIDDENDORF: Let's begin. I've got 2:50, and we have just a little over
25	two hours left. Tom Aldrich, are you there?
26	DR. ALDRICH: Yes.
27	DR. MIDDENDORF: Okay. John Dement?
28	DR. DEMENT: Yes.
29	<b>DR. MIDDENDORF</b> : Kimberly Flynn?
30	MS. FLYNN: Yes.
31	DR. MIDDENDORF: Bob Harrison?
32	DR. HARRISON: Yes.
33	DR. MIDDENDORF: Catherine Hughes?
34	MS. HUGHES: Yes.
35	DR. MIDDENDORF: Steve Markowitz?
36	DR. MARKOWITZ: Yes.
37	<b>DR. MIDDENDORF</b> : Guille Mejia?
38	MS. MEJIA: Present.
39	DR. MIDDENDORF: Carol North?

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1	DR. NORTH: Yes.
2	DR. MIDDENDORF: Julia Quint?
3	DR. QUINT: Yes.
4	<b>DR. MIDDENDORF</b> : Bill Rom? (pause) Come back to Bill. Susan Sidel?
5	MS. SIDEL: Here.
6	DR. MIDDENDORF: Glenn Talaska?
7	DR. TALASKA: Present.
8	DR. MIDDENDORF: Leo Trasande?
9	DR. TRASANDE: Yes.
10	DR. MIDDENDORF: Liz Ward?
11	DR. WARD: Here.
12	<b>DR. MIDDENDORF</b> : And Virginia is gone, so one, two, three, four We
13	have 13, and Bill, are you there? Okay. Well, we have 13, and so we have a
14	quorum; we can continue on.
15	
16	DISCUSSION OF RESEARCH NEEDS AND DEVELOPMENT OF
17	RECOMMENDATIONS (continued)
18	<b>DR. WARD:</b> Okay. So Carol, did you have a proposed wording for item
19	number 2?
20	<b>DR. NORTH:</b> I'm ready. That's an (a) and a (b); (a) relates to exposure.
21	Characterize the disaster-related exposures that are associated with the
22	development of specific psychiatric disorders. You want me to proceed to (b)?
23	<b>DR. WARD:</b> I think it would be good to do that.
24	<b>DR. NORTH:</b> (b) is diagnosis. Differentiate psychiatric disorders from
25	symptoms and distress in relation to disaster exposures, comma.
26	<b>DR. MIDDENDORF</b> : Okay, wait a minute. I got a little slow there.
27	Differentiate psychiatric disorders
28	<b>DR. NORTH:</b> From symptoms and distress in relation to disaster exposure,
29	comma, and develop efficient and effective methods
30	DR. MIDDENDORF: I'm sorry, develop what?
31	<b>DR. NORTH:</b> Efficient and effective methods for diagnosis of
32	disaster-related psychopathology in populations and individuals.
33	<b>DR. MIDDENDORF</b> : Okay. Do you want that as one motion or do you want
34 25	these as separate motions?
35	DR. NORTH: I don't care.
36	<b>DR. WARD:</b> I think one thing we could do is we could combine I mean, we
37	could have them as one motion and just have a, you know, a subhead such as
38	research on mental health World Trade Center-related mental health disorders,
39	and then we could have the two items included in that. And once anyone has I

1       think it would be better to combine it into one research area unless someone has a strong objection to doing that.         3       DR. NORTH: I separated them simply because they were – responded to two different separate areas in the tasks that we were given in the original letter.         5       DR. WARD: Which – what were the areas, then? The – accurate diagnosis was – okay –         7       DR. NORTH: The first was identify gaps on understanding the effects of exposure, and the second – these are the charges. The second was, I guess, relative to accurate diagnosis.         10       DR. WARD: Okay. Very good point. So let's do that, then. Let's include the en – only the one on item 1, and the voting and listing now, and then when we move on to Dr. Howard's item 2, we can include the other one.         13       DR. NORTH: All right. Then I might mention that I didn't include anything on treatment because I didn't have strong feelings about it but other members may have some.         16       DR. WARD: Right. No, we haven't even started on two yet. And you're right, it probably better belong there.         19       Paul, do you want to read it over one more time?         20       DR. WARD: Moy pinion would be that it might be better to keep that as a separate priority than to subsume it under exposure assessment, lock at different psychiatric disorders.         21       DR. WARD: MOY pinion would be that it might be better to keep that as a separate priority than to subsume it under exposure assessment, lock at different psychiatric disorders, which it seems to me that that's enough of a unique concept to stand on its own as a research priority.		o
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39 that Dr. North was raising as a research priority.		
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1DR. NORTH: Yeah, certainly I didn't intend it for cognitive issues; I intended2it for psychiatric illness.3MS. SIDEL: Okay. All right. Then, then I, I just I just didn't understand if4'Cause we were talking about the cognitive thing. And I thought that that's what5DR. NORTH: No, I thought it diverged from that.6MS. SIDEL: I'm sorry; I couldn't understand you. What?7DR. NORTH: I diverged from that.8MS. SIDEL: Oh, I see, okay. So where is that going to go?9DR. NORTH: Either under exposures related to mental health or under10mental health related to exposures.11MS. SIDEL: So is it gonna be would that be part of 2?12DR. NORTH: I tould be.13MS. SIDEL: Wait. I think it should be separate, then, because I think that14the problem is that it's not being recognized, and so it's gonna have to be spelled15out. Not as in, like somewhat something's gonna, you know if you're not	
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15 out. Not as in, like somewhat something's gonna, you know if you're not	
16 schooled in that, it has to be pointed out.	
17 <b>DR. NORTH:</b> So I'm not sure I understand the question. Where are you	
18 suggesting we put it? Hello?	
19 MS. SIDEL: I think it should be separate.	
20 DR. NORTH: Okay. Other number?	
21 MS. SIDEL: It should be it should be raised as an issue. I mean, the issu	e
22 was that they're not looking at cognitive issues that are not caused by PTSD; they	
23 were actually caused because something happened to your brain as a result of be	ing
24 exposed to toxins. That would I thought that the cognitive the woman that	
25 spoke today, that's what she was talking about, and I thought that we would be	
26addressing that, that issue.	
27 <b>DR. NORTH:</b> Well, it's probably going to be more relevant to certain	
28 medical conditions. My point earlier was there are different kinds of exposures the	nat
29 would be pertinent to mental health conditions.	
30 DR. WARD: Can I say I mean, my suggestion would be that Dr. North	
31 make the motion at this point I don't think we can continue to I mean, I think	
32 we have to take these one by one, agree that they are a research priority, and the	n
33 move on to the next research priority. Because otherwise we're not going to get	
34 past the first item in the agenda. So I think if Dr. North wants to make that as a	
35 motion, and then we have a second, then we could the committee could vote o	
36 it as whether we see it overall as a research priority, not necessarily ranking it as t	he
37 most important but that it is one of the research priorities that this committee	
38 recommends as a critical gap in knowledge.	
39 MS. SIDEL: So you're basically saying that we're going to have like a laund	lry

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1	list of things that are possible things that should be looked into, you know.
2	<b>DR. WARD:</b> Well, I don't think it's going to be a laundry list, 'cause I think
3	we already have I mean, we're going back to version number 6 that Paul sent
4	around, which has somewhere between six and seven teams. Now, the cognitive,
5	cognitive health effects, I think, was originally subsumed as an example under bullet
6	1, which we've already voted on, with taking out the bullets.
7	So I guess we still will need to discuss it's clear that Dr. North does not feel
8	that cognitive issues belongs in the same priority area as the mental health
9	research.
10	DR. NORTH: It might sometimes.
11	<b>MS. SIDEL</b> : But what mental health are they doing right now? I just don't
12	understand it.
13	DR. WARD: It might sometimes but it might not sometimes so Carol, you
14	have to decide if you want it in write a broader bullet that includes the cognitive
15	research or, if not, then we have to handle the cognitive research as a separate
16	bullet.
17	I don't know how many committee members feel strongly that that belongs
18	on the list but I think we are going to need to take specific proposals for research
19	gap areas one by one, but recognize that, you know, I was assuming that we were
20	down to six or seven, that we were word-smithing.
21	DR. NORTH: We can't subsume all cognitive disorders in psychiatric
22	disorders.
23	DR. WARD: We can't but we could I mean, if we wanted to
24	MS. SIDEL: She's talking about a very specific thing. She's talking people
25	that are actually found of having been exposed to toxins, that they're having
26	cognitive issues.
27	DR. WARD: Because one person on a because one person in the public
28	has testimony suggested that it's a research priority does not mean that the
29	committee, as a whole, is going to
30	MS. SIDEL: Okay, I
31	<b>DR. WARD:</b> request it as a research priority. So I don't know how we get
32	to the point where we have a substantive discussion on that but I do recognize that
33	that was what the public the participant from the public was advocating for. I just
34	
35	MS. SIDEL: Right. I don't think it's just one person. I know a lot of people
36	that have those issues. And I think it's very common and I think that usually people
37	are told that it's part of post-traumatic stress disorder, and maybe it's not. And then
38	it just doesn't get treated.
39	DR. NORTH: This is Carol, can I

1	<b>MS. SIDEL</b> : It's a cognitive issue.
2	<b>DR. NORTH:</b> Can I respond to that? I'm thinking of psychiatric disorders in
3	terms of exposure to trauma. I think that cognitive disorders in relation to exposure
4	to toxins is a different set of conditions.
5	MS. SIDEL: Right. I think that's what she's talking about, is as associated to
6	toxins, not as being exposed to trauma.
7	<b>DR. NORTH:</b> Right. That would not relate to my point.
8	MS. SIDEL: and you know, she's probably had a neuropsych test. I know a
9	lot of people that have had neuropsych tests. I know the NYPD does them. And,
10	you know, the results are that people are damaged. They don't have the same
11	brains that they went in that they went into, you know, they went to the World
12	Trade Center with.
13	DR. NORTH: Right. I don't conceptualize that as part of the psychiatric
14	disorders I'm talking about.
15	<b>DR. WARD:</b> Right, so what I'm saying is let's start on let's let Carol make a
16	motion on the ones she's talking about, and maybe Carol can help us phrase one
17	that Susan's talking about in more you know, in the appropriate technical
18	language. And then we can take a vote on whether the committee feels that that
19	that it wants to recommend that as a research gap of priority.
20	<b>DR. NORTH:</b> I'll be glad to help with that.
21	DR. WARD: Okay.
22	<b>DR. NORTH:</b> May I move that we vote on, I guess, acceptance of number 9
23	as it is worded? Do I need to repeat it?
24	<b>DR. MIDDENDORF</b> : Okay, it's actually motion number 2, and the wording I
25	have is: Characterize the disaster-related exposures that are associated with the
26	development of specific psychiatric disorders.
27	DR. NORTH: That's it. Thank you.
28	DR. WARD: Do I have a second?
29	MS. MEJIA: Second. This is Guille.
30	<b>DR. WARD:</b> So let's call for a vote.
31	<b>DR. MIDDENDORF</b> : Okay. Tom Aldrich on motion number 2?
32	DR. ALDRICH: Vote yes.
33	DR. MIDDENDORF: John Dement?
34	DR. DEMENT: Yes.
35	DR. MIDDENDORF: Kimberly Flynn?
36	MS. FLYNN: Yes.
37	DR. MIDDENDORF: Bob Harrison? Bob, did you say something? I'll come
38	back to you, Bob. Catherine Hughes?
39	MS. HUGHES: Yes.

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1	DR. MIDDENDORF: Steve Markowitz?	
2	DR. MARKOWITZ: Yes.	
3	DR. MIDDENDORF: Guille Mejia?	
4	MS. MEJIA: Yes.	
5	DR. MIDDENDORF: Carol North?	
6	DR. NORTH: Yes.	
0 7	DR. MIDDENDORF: Julia Quint?	
8	DR. QUINT: Yes.	
9	DR. MIDDENDORF: Bill Rom?	
10	DR. ROM: Yes.	
11	DR. MIDDENDORF: Susan Sidel?	
12	MS. SIDEL: Yes.	
13	DR. MIDDENDORF: Glenn Talaska?	
14	DR. TALASKA: Yes.	
15	DR. MIDDENDORF: Leo Trasande?	
16	DR. TRASANDE: Yes.	
17	DR. MIDDENDORF: And Liz Ward?	
18	DR. WARD: Yes.	
19	DR. MIDDENDORF: Okay. I'm assuming Virginia's still not with us. There	
20	were 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Bob Harrison, are you still there? I'm not hearing	
21	Bob. We have 13 yeses, zero noes and zero abstentions. Okay.	
22	<b>DR. WARD:</b> Okay, so then, I think the next order of business would be to	
23	articulate a motion or a statement that we can vote on regarding research on	
24	cognitive disorders related to toxic exposures in World Trade Center populations.	
25	<b>DR. ALDRICH:</b> This is Tom Aldrich. I still think that's part of number 1, and if	
26	a researcher identifies cognitive disorders as an issue to study, they'll study it.	
27	<b>DR. WARD:</b> Well, I guess what we need to do is figure out a way to get a	
28	sense overall sense of the committee. So we've heard Susan advocating that it is	
29	an important priority on its own. And I think the way and we've also heard a	
30	number of people saying that, you know, it rightly belongs as a you know,	
31	something that could be under item 1. But I guess at this point we need a motion	
32	and a vote, because we have different viewpoints having been expressed on the	
33	committee, so I was thinking if we could have a motion to include it, then we can	
34	take a vote as to whether we want to include it. We can have a discussion and a	
35	vote as to whether we want to include it as a separate research priority.	
36	<b>DR. NORTH:</b> This is Carol. I would vote to put it as part of number 1, as part	
37	of the medical conditions, and I would like to make that motion.	
38	<b>DR. WARD:</b> And just to clarify, we won't call it out specifically but it will be	
39	understood that it would be one of the conditions that we include under item 1.	

	9
1	<b>MS. SIDEL:</b> All right. This is Susan. I don't understand how it would be
2	understood if it's not spelled out. Hello? Can you hear me?
3	<b>DR. ALDRICH</b> : I don't think it has to be spelled out.
4	<b>MS. SIDEL:</b> I'm, I'm confused. I mean are you saying that we need to have
5	number 1, and then it'll say something about you're going to use the word cognitive
6	disorders as caused by toxins? Or
7	<b>DR. ALDRICH</b> : Number 1 stands as number 1, and it's one of many
8	potentially previously unrecognized health conditions.
9	<b>DR. MIDDENDORF:</b> Allen stated that one of the things that will happen is
10	that when they go to put together the funding announcements, they will look at the
11	specific motions and then they'll also look at the transcript to try and get a sense of
12	what the committee was intending with that.
13	MS. SIDEL: You know, I just give up. I mean
14	<b>DR. WARD:</b> Okay, well, Carol has made a motion essentially it's kind of I
15	guess it's hard to make a motion. I'm not sure the motion is actually vote-able in
16	the way it was made. So I think maybe it is easier to just say, Susan makes a motion
17	to include it as a separate priority area, and the, and the assumption we're voting on
18	is that if it's not if that, if that does not get voted by the majority on the
19	committee, then the sense of the committee is that it is included as one of the
20	potential diseases to be studied under recommendation 1.
21	MS. SIDEL: So nobody on the committee thinks that something could
22	happen to your brain from being exposed to toxins, so that the reason people are
23	having cognitive issues is because of PTSD or because they're depressed?
24	<b>DR. NORTH:</b> This is Carol. No, I think that that's the reason to include it
25	under number 1, to separate it from the psychiatric disorders
26	MS. SIDEL: But I don't understand how you're going to include it. I mean, if
27	you're not going to say it. If you're not going to say I mean, I don't understand I
28	guess what I'm saying is like, what do you mean by include it? You're going to say
29	the words cognitive, you know, issues as
30	DR. WARD: No. I think that's not we're not
31	MS. SIDEL: I mean, that sounds very vague because that's not inclu you
32	know, not saying anything is not including it. That's like nobody reads the notes of
33	what the committee meant.
34	DR. WARD: But I don't think aside from I mean, they're what we're
35	trying to do is capture things that the majority of the people on the committee think
36	are important, critical research knowledge gaps. And so far the only person who,
37	who has advanced the viewpoint that that particular topic should be on the list of
38	critical research knowledge gaps is you.
39	MS. SIDEL: All right, so then let's move on

1 **DR. WARD:** Is there anyone else who supports that or if not, we probably 2 should move on. 3 **DR. MARKOWITZ:** This is Steven Markowitz. Actually I would argue against 4 any -- naming any particular condition at this point, given what we know. So it's not 5 just cognition but I would make the same statement for renal diseases or whatever. б They are subsumed under newly emerging conditions. 7 **DR. NORTH:** | agree. 8 **DR. MARKOWITZ:** What we need is a sensitive enough surveillance system 9 to be able to pick up concerns like Susan's. If, if --10 **MS. SIDEL:** You know what, they're not really emerging conditions, though. 11 They've been here for a long time and it's just been ignored. So there's a lot of 12 people that have been suffering for a lot of years, and unless they have the money 13 to go be treated by outside doctors, they're not being treated. Or I know people 14 that are in the volunteer program as, you know, like that's the committee. I got a 15 connective tissues disease covered as related to, you know, World Trade Center 16 exposures, because I had the medical, you know, the medicals support it. And, you 17 know, workers' comp, when all of them were in New York, they sent me to five 18 different doc -- you know, rheumatologists. I couldn't find one to say that, you 19 know, to disagree with my doctor who said that this is a result of my exposure. And 20 I know a lot of other people that are -- have similar situations to mine. They just 21 have finances to go on their own to a rheumatologist to be treated. And then when 22 the -- when the volunteer program ends, in 2016, because they're gonna, you know, 23 be out of money, then, you know, somebody like me, I'm not gonna have treatment. 24 And it's not fair because it's, you know, the issue and -- at my very first appointment 25 in 2002. 26 DR. WARD: You know, the other point for everyone is a lot of the other 27 bullet points -- or the other recommendations that we haven't gotten to talk about, 28 there was one related to biomarkers; there was one related very broadly to immune 29 system disorders, which would include autoimmune diseases, which, you know, I 30 think there's a -- there's more support in the -- there may be more support in the 31 community that that is a category of diseases that we really do need to call out as a 32 research priority. There's one on vulnerable populations including those exposed 33 during gestation, childhood and adolescence. And then there's one on exposure 34 assessment. 35 So I mean, from a viewpoint of efficiently doing our jobs, I would suggest 36 that we table the discussion of cognitive disorders for now and move on to immune 37 system disorders, and that -- well, we could move on to biomarkers --38 DR. NORTH: What about the other mental health issues? 39 **DR. WARD:** Well, we need to take a vote on that, right.

1	<b>DR. NORTH:</b> The diagnosis statement that we haven't discussed yet?
2	<b>DR. WARD:</b> That one, I think, we want to we want to vote on when we're
3	down to the second. You pointed out correctly that that's related to the accurate
4	diagnosis, which is under the second
5	<b>DR. NORTH:</b> Okay, that's the other thing.
6	<b>DR. WARD:</b> Yeah, no, I've been lost but I think that's where it belongs and
7	I'm more you know, but I think, you know, our immediate order of business
8	should be to finalize our recommendations in relation to area 1, and then move on
9	to area 2 and hope that, that we've learned enough through this process that we
10	can really narrow down the the second, third and fourth area more quickly, and
11	come to consensus.
12	<b>DR. NORTH:</b> Good, I got it. I'm following that, thank you.
13	<b>DR. WARD:</b> It's also an you know, we also do have the option easily of
14	saying, you know, putting in the committee recommendations that there was
15	debate about whether research on cognitive disorders related to toxins should be
16	included on the list. And you know, we can include those topics that we discussed
17	but didn't come to consensus on for the sake of completeness.
18	But I suggest we move on and take a vote on the proposal for the second
19	recommendation under category 1. If Paul will read it to us one more time. We
20	have a we did have a second on that motion, I think.
21	DR. MIDDENDORF: On which motion? Oh, you mean the differentiate
22	psychiatric disorders?
23	DR. WARD: No, no. We're I don't think we voted on the motion by Carol
24	that belongs in this section.
25	DR. MIDDENDORF: Characterize the disaster-related exposures?
26	DR. WARD: Right.
27	<b>DR. MIDDENDORF</b> : Yeah, we have a vote, 13-0-0.
28	<b>DR. WARD:</b> We have? Okay, good, we're done with that one, okay.
29	Moving on, we're tabling cognitive discussion for now, and we're moving on to
30	biomarkers.
31	MS. FLYNN: Liz?
32	DR. WARD: Yes.
33	<b>MS. FLYNN:</b> This is Kimberly. I don't know if this helps or not but would it
34	be possible, before we move on to biomarkers, for perhaps Dr. Markowitz to frame
35	a proposal around symptom surveillance?
36	DR. MARKOWITZ: This is Steve Markowitz. No, let's do biomarkers. We'll
37	get to surveillance.
38	MS. FLYNN: Okay. So we gotta come back to symptom surveillance
39	because that is at the bottom of many a complaint from survivors and responders.

MS. SIDEL: It was supposed to be strengthened, I thought, like three years         ago.         DR. WARD: Okay, so on biomarkers, has anyone had time to try to frame –         DR. ALDRICH: suggested wording for biomarkers this is Tom Aldrich.         DR. WARD: Okay, Go ahead.         BR. ALDRICH: This is possibly only a part of it because it doesn't include the         Issue about tong-lived biomarkers as a measure of exposure, which, I think, maybe         ought to be a separate thing because it's not –- it's more about exposure than about         biomarkers on this is excluding that.         What I suggest is: Determine the value of biomarkers for early detection of         precancerous conditions, comma -         DR. MIDDENDORF: Wait a minute. Early detection         DR. MIDDENDORF: You said associated, not related, okay.         DR. MIDDENDORF: You said associated, not related, okay.         DR. MIDDENDORF: Well, these are your words.         DR. ALDRICH: Either one, it doesn't matter.         P. MIDDENDORF: Well, these are your words.         DR. ALDRICH: Yeah, that's it.         P. MARD: Okay, do we have a second on that motion?         MS. SIDEL: No.         DR. WARD: Okay. 1 guess we'll move to a vote?         THE COURT REPORTER: Thank you.         DR. MIDDENDORF: And Susan. Both of them seconded it, so.         THE COURT REPORTER: Thank you.         D		93
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39 DR. MIDDENDORF: Okay. John Dement?		
	39	DR. MIDDENDORF: Okay. John Dement?

	9
1	DR. DEMENT: Yes.
2	DR. MIDDENDORF: Kimberly Flynn?
3	MS. FLYNN: Yes.
4	<b>DR. MIDDENDORF</b> : Bob Harrison? Okay, Catherine Hughes?
5	MS. HUGHES: Yes.
6	DR. MIDDENDORF: Steve Markowitz?
7	DR. MARKOWITZ: Yes.
8	DR. MIDDENDORF: Guille Mejia?
9	MS. MEJIA: Yes.
10	DR. MIDDENDORF: Carol North?
11	DR. NORTH: Yes.
12	DR. MIDDENDORF: Julia Quint?
13	DR. QUINT: Yes.
14	DR. MIDDENDORF: Bill Rom?
15	DR. ROM: Yes.
16	DR. MIDDENDORF: Susan Sidel?
17	MS. SIDEL: Yes.
18	DR. MIDDENDORF: Glenn Talaska?
19	DR. TALASKA: Yes.
20	DR. MIDDENDORF: Leo Trasande?
21	DR. TRASANDE: Yes.
22	DR. MIDDENDORF: Liz Ward?
23	DR. WARD: Yes.
24	<b>DR. MIDDENDORF</b> : Okay, 1, 2, 3, 4, 5, 6, 7, 8, 9 13 yes, zero no, zero
25	abstain.
26	<b>DR. WARD:</b> Okay, so the next one on the list is immune system disorders
27	that cover sarcoidosis, malignancy, autoimmune diseases as a broad category. Has
28	anyone come up with better wording for that?
29	DR. ALDRICH: Let me ask, does the long-lived biomarkers, which I really like
30	that concept, but that's going to be a part of number 7, right, or the last one on the
31	list, the exposure assessment?
32	<b>DR. WARD:</b> I think that's what was proposed.
33	DR. ALDRICH: Good.
34	DR. WARD: So I mean, there is the question of whether we want to
35	highlight any specific disease category in these recommendations. We did highlight
36	mental health conditions. So I had a feeling that there was support from a number
37	of people on the immune system disorders; is that correct?
38	<b>DR. ALDRICH:</b> I personally think, to be consistent, we should say this is all
39	part of 1, and not talk about it separately.

1	<b>DR. WARD:</b> Okay, so is there anyone who disagrees with that perspective?
2	<b>MS. SIDEL:</b> I don't I don't understand what you mean by that. What do
3	what do you mean that it's all part of 1?
4	<b>DR. ALDRICH:</b> This would be one of those newly emerging health conditions
5	that refer to in motion 1.
6	<b>MS. SIDEL:</b> But you're not going to say what it is?
7	<b>DR. ALDRICH:</b> No, because I think it's up to the researchers to focus on
8	what they think are important, and convince us or convince the
9	MS. SIDEL: Okay.
10	<b>DR. ALDRICH:</b> the review committee, whoever's going to be reviewing
11	the applications, that they made a good case for it. And if it if someone makes a
12	really, really good case that hang nails are associated with the World Trade Center,
13	they should be funded. It's a matter of who can make a good case for something,
14	not some preconceived idea about what's important.
15	MS. SIDEL: Well, there were preconceived ideas about what was important
16	from the very beginning of the program, when they decided what they were gonna
17	cover and what they weren't gonna cover. And just because something like
18	autoimmune diseases wasn't on that list it wasn't because they didn't exist or
19	because people didn't have them, it was because it wasn't something that was being
20	checked and it wasn't being recorded.
21	DR. ALDRICH: But I just it was
22	MS. SIDEL: And so it okay, but (indiscernible)
23	<b>DR. ALDRICH:</b> (indiscernible) emerging newly emerging diseases.
24	MS. SIDEL: But it's not newly emerging; it's been there, and all I'm saying is
25	that, with 13 years out and nobody has come close to dealing with this. The first
26	time that it was that anything was ever like remotely close was the discussion of
27	inflammation in the Dr. Prezant's article. And that was like, you know, when you
28	discuss inflammation, you know, the underlying, underlying all of the
29	(indiscernible) things that we had and, you know, that are associated with cancer,
30	and it's, you know, it's a big part of autoimmune diseases. So
31	DR. ALDRICH: Yeah, I think that, that work is being done. It's being done
32	with the, the autoimmune surveillance program at the FDNY that's funded by NIOSH
33	last year, and it is a late-emerging disease. It wasn't one of the early emerging
34	things. Yes, there were some people who had polymyositis as a related condition
35	MS. SIDEL: It was late because it wasn't recognized.
36	DR. ALDRICH: But a few cases out of many thousands is not something you
37	can study. Now there are many cases and now they can be studied but it's not it's
38	not a neglect that led them not to be studied. It's that they were they had not
39	emerged in enough volume to be studied back then.

96 1 And now they are being studied. And I don't think that we should -- you 2 know, that's why I -- I kind of feel like cognitive issues are more -- are less 3 recognized than autoimmune. Maybe that's because they're not related to World 4 Trade Center but they're not -- autoimmune diseases are being recognized. They're 5 not recognized to the point that they can be included in the Health Program. But б the whole point of this research is to find out if they -- if they should or should not 7 be included. And that's -- and research is being done. The research will be 8 encouraged by item 1, research into cognitive issues, research into autoimmune 9 diseases, research into all kinds of new areas, so --**MS. SIDEL:** But the thing is that we haven't had any new areas for a long 10 11 time, a long, long time. 12 **DR. WARD:** Let me just cut in, so we're -- we're just having a debate 13 between two people in this and I guess I'd like to hear what other people think. At 14 this point --15 DR. MARKOWITZ: This is Steve Markowitz --16 DR. WARD: Yeah. 17 **DR. MARKOWITZ:** So, I think it's sort of a Catch-22, right? Some of these 18 aren't looked at until it provides a strong enough signal but it doesn't provide a 19 signal until it's looked at. So I think what we -- I think between the, the first priority 20 we discussed, which was newly emerging and previously unrecognized. And then I 21 think when we get to something, a proposal on a more sensitive surveillance 2.2 system, so that it's more likely that problems will be picked up, like Susan's 23 discussing. Between those, I think, then, it'll cover this issue. 24 DR. ALDRICH: But won't there be a preamble to the list of priorities? 25 **DR. WARD:** Here's the thing, any text that we want to convey has to be 26 discussed and approved during this meeting. So if we want to talk about a 27 preamble, we have to come up with draft text for the preamble. 28 Now, I apologize 'cause I feel like we're not -- I mean, I don't think we, for 29 various reasons including technical circumstances, I don't feel like we're in the 30 most -- I think this meeting isn't the most conducive way to come up with the best 31 set of recommendations, but within the technology constraints that we have, pretty 32 much we have to agree on final text in the course of this meeting. So if anybody 33 wants to propose a preamble, they should probably think about how they would 34 want to word it while we're talking so that we can consider it as a committee and 35 vote on it. 36 MS. SIDEL: I just feel like it's redundant. We just, we just -- we're asking 37 people to do what they're supposed to do. They're supposed to research new and 38 emergent -- emerging things. It doesn't have to be said, but it's not being done. 39 DR. ALDRICH: Yes, but we cannot --

1	<b>MS. SIDEL:</b> And it could be done.
2	<b>DR. ALDRICH:</b> We cannot point out things for study for which there is no
3	evidence.
4	DR. MARKOWITZ: You know, I think actually we just have a this is Steve
5	Markowitz we have a disagreement here. And I don't think we're gonna actually
б	breach this. I don't think we're gonna solve this disagreement. So because the
7	same points of view and I don't mean any disrespect here but are being
8	repeatedly expressed. So I think either we formulate a specific proposal that can be,
9	you know, we accept it or reject it or we move on.
10	<b>DR. WARD:</b> This is Liz; I agree.
11	MS. SIDEL: Well, is this a court for suggesting that more research needs to
12	be done in the area of autoimmune diseases related to the World Trade Center?
13	<b>DR. NORTH:</b> I don't think we ought to single it out. This is Carol.
14	<b>DR. DEMENT:</b> This is John Dement. I think it's under item 1 in surveillance,
15	as Steve has talked about as well.
16	<b>MS. MEJIA:</b> This is Guille. I also agree that it's covered under item 1.
17	DR. TALASKA: Glenn Talaska, the same.
18	DR. WARD: Okay, so, so unless, you know, unless Susan, you want to make
19	a specific, you know, motion, and then we have a see if we have a second, and
20	take a vote, I think we can table the issue 'cause it at least to me it doesn't seem
21	like there's a great deal of support for calling this out as a priority research area.
22	MS. SIDEL: I don't think it's worth it for me to come up with a motion
23	because it's not gonna get passed, so
24	<b>DR. WARD:</b> Okay, thank you. So the next general area we have on the list is
25	health effects of exposure to vulnerable populations with specific emphasis on
26	children exposed during gestation, people exposed during childhood and
27	adolescence. Does someone want to make a motion for the wording on that?
28	DR. ALDRICH: I think the wording the most recent wording is really, really
29	good: Assess health effects of exposure on gestation and early life, paren,
30	childhood and adolescence, end paren. I think that's perfect.
31	MS. FLYNN: And this is Kimberly. Would we include the biomarkers of
32	exposure point here?
33	<b>DR. ALDRICH:</b> My view is that belongs after the next one.
34	MS. FLYNN: Okay.
35	DR. ALDRICH: The next one.
36	MS. FLYNN: Okay.
37	<b>DR. WARD:</b> I think that was the viewpoint I heard earlier from most people,
38	that or from several people, that we should include it under the exposure
39	assessment. So do we have a second on the motion for the item number 6?

1DR. NORTH: I'll second it. This is Carol.2DR. WARD: Okay. Paul, should we go to a vote?3DR. MIDDENDORF: Yeah, this is motion number 4. It is: Assess health4effects of exposure on gestation and early life, in parentheses, childhood and5adolescence.6I'll give people a second to think about that. And then I'll get to Tom7Aldrich?8DR. ALDRICH: Is it WTC exposure or just exposure?9DR. MIDDENDORF: The wording only says exposure at this point.10MS. FLYNN: I accept the friendly amendment of World Trade Center11exposure 'cause this is what this is all about.12DR. WARD: Yes.13DR. ALDRICH: With that amendment, I vote yes.	9
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12 DR. WARD: Yes.	
13 <b>DR. ALDRICH:</b> With that amendment, I vote ves	
14 <b>DR. MIDDENDORF</b> : Was that amendment seconded?	
15 DR. NORTH: I'll second, Carol.	
16 <b>DR. MIDDENDORF</b> : Okay. So Tom Aldrich?	
17 DR. ALDRICH: Yes.	
18 <b>DR. MIDDENDORF</b> : John Dement?	
19 DR. DEMENT: Yes.	
20 DR. MIDDENDORF: Kimberly Flynn?	
21 MS. FLYNN: Yes.	
22 DR. MIDDENDORF: Bob Harrison? Catherine Hughes?	
23 MS. HUGHES: Yes.	
24 DR. MIDDENDORF: Steve Markowitz?	
25 DR. MARKOWITZ: Yes.	
26   DR. MIDDENDORF: Guille Mejia?	
27 <b>MS. MEJIA:</b> Yes.	
28 DR. MIDDENDORF: Carol North?	
29 DR. NORTH: Yes.	
30 DR. MIDDENDORF: Julia Quint?	
31 DR. QUINT: Yes.	
32 DR. MIDDENDORF: Bill Rom?	
33 <b>DR. ROM:</b> Yes.	
34   DR. MIDDENDORF: Susan Sidel?	
35 MS. SIDEL: I'm sorry, yes.	
36 <b>DR. MIDDENDORF</b> : Glenn Talaska? Leo Trasande? Liz Ward?	
37 <b>DR. WARD:</b> Yes.	
38 <b>DR. MIDDENDORF</b> : Okay. I'm gonna go back and check to see whether or	
39 not Bob Harrison, are you there? I'm hoping this isn't a problem with just not	

	2
1	being able to speak. Glenn Talaska?
2	DR. TALASKA: I voted yes.
2 3	<b>DR. MIDDENDORF</b> : Leo Trasande? Okay, I didn't hear anything from Leo or
4	Bob.
5	DR. TALASKA: You got mine, though, right?
6	DR. MIDDENDORF: That was Glenn?
7	DR. TALASKA: Yes.
8	DR. MIDDENDORF: Yes, I got your yes.
9	<b>DR. WARD:</b> So Paul, maybe you should ask if Leo or Bob are having trouble
9 10	speaking, they should email you or something?
11	DR. MIDDENDORF: Yeah, they usually they do.
12	DR. WARD: Okay.
13	<b>DR. MIDDENDORF</b> : So that's one of the things I've been monitoring.
13 14	<b>DR. WARD:</b> Okay, so we have the last bullet or the last item on the list is
15	related to exposure assessment. And I'm hoping that someone has some draft
16	language.
17	<b>DR. ALDRICH:</b> I have a suggestion for that. Unfortunately I don't think it's
18	quite complete because it doesn't address the special issues or separate psychiatric
10 19	exposures and it doesn't address the long-term, long-lasting biomarker issue, and I
20	think those should be addressed. But aside from that, if we say: improved WTC
20	exposure quantification: inhaled, topical, ingested, psychological or other.
22	DR. MIDDENDORF: Okay, I'm gonna ask you to repeat all that.
23	<b>DR. ALDRICH:</b> Improved WTC exposure quantification, colon, inhaled,
24	topical, ingested, psychological or other.
25	DR. MIDDENDORF: Okay.
26	<b>DR. NORTH:</b> Could I make a suggestion this is Carol. We've got the
27	mental health stuff separately. Could we take it out of this? Because psychological
28	exposure is an odd conflict.
29	<b>DR. ALDRICH</b> : Yeah, let's take it out and let's do a motion motion 6 that
30	says something about the separate quantification of physical and nonphysical
31	exposures.
32	<b>MS. FLYNN:</b> This is Kimberly. Can I just can I please ask what's entailed by
33	quantification in this instance?
34	<b>DR. ALDRICH:</b> My view is that it's been extremely murky to understand how
35	to quantify an individual's exposure, and that the only the only techniques have
36	been extremely crude, and if some smart people can come up with better ways of
37	doing it, that would be very valuable. This may be an impossible goal.
38	<b>DR. WARD:</b> Yeah, this is Liz. I would suggest maybe we should substitute
39	estimation.
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1	<b>DR. DEMENT:</b> I would say assessment. This is John Dement.
2	DR. WARD: Yeah, yeah.
3	DR. ALDRICH: Assessment or metrics.
4	DR. DEMENT: Yeah, or metrics, whatever. That's true because
5	quantification has a connotation that you can actually put a numeric value to it and
б	in a lot of cases you really can't.
7	DR. TALASKA: That's right. And I think metrics or
8	DR. DEMENT: Yeah.
9	DR. TALASKA: assessment would be better.
10	DR. ALDRICH: Well, you know what? I'm thinking that since those last four
11	words, and we're gonna get rid of psychological on that, the last three words refer
12	to the word just before it. Somehow the word exposure should be just before it. So
13	it should be improved assessment of WTC exposure, colon.
14	DR. MIDDENDORF: I'm sorry, say that again?
15	DR. ALDRICH: Improved assessment of WTC exposure, colon. Or estimate,
16	if you prefer, and then get rid of psychological.
17	<b>DR. WARD:</b> Yeah, and I'm not sure that we really need to specify the long-
18	live biomarkers 'cause again, that's something that I mean, the investigators could
19	propose to do to satisfy this knowledge gap.
20	<b>DR. DEMENT:</b> Great point. It's a very cool idea though.
21	<b>DR. NORTH:</b> Question. Exposure to what is implied here?
22	<b>DR. MARKOWITZ:</b> Just about any agent. Just about any agent is what's
23	implied.
24	DR. DEMENT: Yeah.
25	<b>DR. WARD:</b> So the three words just to repeat, the three words you have
26	after the colon are?
27	<b>DR. ALDRICH</b> : Inhaled, topical, ingested or other.
28	DR. WARD: Okay.
29	<b>DR. ALDRICH</b> : I don't think there was any intravenous.
30	UNIDENTIFIED SPEAKER: There may have been some IM though.
31	<b>DR. WARD:</b> Okay, so do we have a second for that motion?
32	DR. TALASKA: I'll second it.
33	THE COURT REPORTER: Who seconded?
34	<b>DR. MIDDENDORF</b> : The question on the table is assessment of WTC
35	exposure, colon, inhaled, topical, ingested or other.
36	MS. SIDEL: Is this written down someplace?
37	DR. MIDDENDORF: Sorry?
38	<b>MS. SIDEL:</b> Is this did we is this written down?
39	<b>DR. MIDDENDORF</b> : Yeah, you need me to send it?

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1	<b>MS. SIDEL</b> : Yeah. I'm confused; I can't figure out which one it is.
2	DR. MIDDENDORF: Okay.
3	<b>THE COURT REPORTER:</b> I'm sorry, who seconded the motion, please?
4	DR. TALASKA: Glenn Talaska.
5	THE COURT REPORTER: Thank you.
б	<b>DR. WARD:</b> Okay, so Paul is sending out the, the task, and then once
7	everyone has it, we can go ahead and have a vote.
8	DR. MIDDENDORF: And while we're waiting I will just point out that we
9	have about an hour and 15 minutes, maybe an hour and 20 minutes, left.
10	DR. ALDRICH: While we're waiting, could somebody try to figure out how to
11	phrase that next point, about the difference between exposure to physical agents
12	and exposure to images or whatever it is that causes PTSD in people who weren't
13	actually on the scene?
14	DR. WARD: I thought that was already covered in bullet 2, and we don't
15	need to point it out.
16	UNIDENTIFIED SPEAKER: Yes.
17	DR. ALDRICH: Okay, cool. So no motion 6.
18	DR. WARD: Right. So that would enable us to move on to the second area
19	that Dr. Howard asked us to comment on.
20	DR. MARKOWITZ: Liz? It's Steve Markowitz; I'm sorry to interrupt you but I
21	do have a surveillance proposal.
22	<b>DR. WARD:</b> Oh, I'm sorry, Steve.
23	DR. MARKOWITZ: It wasn't on Paul's previous list.
24	<b>DR. WARD:</b> I know; that's why I forgot but it's still no, I still knew it, so
25	yes, please.
26	DR. MARKOWITZ: But Paul, I sent it to you.
27	<b>DR. MIDDENDORF</b> : Okay, I just copied it in.
28	DR. MARKOWITZ: Okay.
29	<b>DR. MIDDENDORF</b> : If you want to read it off.
30	<b>DR. MARKOWITZ:</b> This is, you know, I welcome changes to the language
31	here. Evaluate and improve the utility and use of current WTC data and activities
32	for the purpose of access surveillance of health conditions in WTC exposed
33	population.
34	DR. ALDRICH: That assumes it's all current data and not new data?
35	<b>DR. MARKOWITZ:</b> Well, no, we can, we can take out the word current. It's
36	current yeah, current would be I mean, data that already exists, not future data.
37	But since the question was raised, let's just take out that so it would, it would say:
38	Evaluate and improve the utility and use of WTC data and activities for the purpose
39	of access surveillance of health conditions in WTC exposed populations.

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1	<b>DR. MIDDENDORF</b> : Okay, before we move any further on that one, let me
2	ask if everybody has received the previous email? The improved assessment of WTC
3	exposure, colon, inhaled, topical, ingested or other.
4	DR. WARD: Yes.
5	MS. SIDEL: And that's it? That's the whole thing?
б	<b>DR. MIDDENDORF:</b> That's it. That's everything.
7	MS. SIDEL: And what about I'm sorry, what's the point?
8	DR. MARKOWITZ: I'm sorry, is the question about the is the question
9	here this is Steve Markowitz about the surveillance proposal?
10	DR. MIDDENDORF: We are back on the improved assessment of WTC
11	exposure.
12	DR. MARKOWITZ: Okay, was that voted on already?
13	MS. SIDEL: No.
14	DR. MIDDENDORF: No.
15	DR. MARKOWITZ: Oh, okay. I apologize. I apologize.
16	MS. SIDEL: Sorry.
17	DR. MARKOWITZ: Go ahead.
18	MS. SIDEL: I'm sorry, Steve, I couldn't hear you.
19	<b>DR. MARKOWITZ</b> : No, no, no. We're back on the exposure, fine. So just
20	strike the surveillance; we'll get to that.
21	DR. MIDDENDORF: Susan, you had a question about improved assessment?
22	<b>MS. SIDEL:</b> Yeah. Like what is that information going to do?
23	DR. DEMENT: This is John this is John
24	MS. SIDEL: I mean, if you have that information, like what, what will that
25	help do?
26	<b>DR. WARD:</b> John, I think you were trying to speak.
27	DR. DEMENT: Yeah, I, I think the idea here is that some innovative
28	integration that some of these exposure assessment tools could give us a better a
29	linkage perhaps even with the surveillance data to generate hypotheses.
30	Exposure a better exposure assessment could definitely improve our ability to
31	make causal links in this ideological research area so that was, I think, the core idea
32	behind it.
33	MS. SIDEL: Okay, thanks.
34	DR. TALASKA: This is Glenn Talaska. I like that a lot because it's vague
35	enough to include all the things we mentioned earlier. And it allows researchers to
36	be innovative in addressing the weaknesses of the past exposure assessment that
37	was previously done at 9/11.
38	<b>DR. WARD:</b> Okay, so are we ready to take a vote?
39	<b>DR. MIDDENDORF</b> : Did we have a I think this is the motion. We need a

1       second on it.         2       DR. TALASKA: It's already been seconded. I did it last time.         3       DR. MIDDENDORF: Okay, sorry. So yes, we're ready for a vote. And the vote is on the improved assessment of WTC exposure, colon, inhaled, topical, ingested or other. Bob Aldrich?         6       DR. ALDRICH: Yes.         7       DR. MIDDENDORF: Iohn Dement?         8       DR. MIDDENDORF: Kimberly Flynn?         10       MS. FLYNN: Yes.         11       DR. MIDDENDORF: Steve Markowitz?         12       MS. HUGHES: Yes.         13       DR. MIDDENDORF: Steve Markowitz?         14       DR. MIDDENDORF: Steve Markowitz?         15       DR. MIDDENDORF: Steve Markowitz?         16       MS. MEIJA: Yes.         17       DR. MIDDENDORF: Steve Markowitz?         18       DR. MIDDENDORF: Carol North?         19       DR. MIDDENDORF: Susan Sidel?         20       DR. MIDDENDORF: Bill Rom?         21       DR. MIDDENDORF: Bulla Quint?         22       DR. MIDDENDORF: Bulla Quint?         23       DR. MIDDENDORF: Susan Sidel?         24       MS. SIDEL: Yes.         25       DR. MIDDENDORF: Susan Sidel?         26       DR. MIDDENDORF: Invelve yes, zero no, zero abstentions. Motion passes.		10
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39 don't define it further.		
	39	don't define it further.

1	DR. MARKOWITZ: Okay. Yeah, so this so what I'm really after here would
2	be more apparent with the World Trade Center Health Program and the clinics is the
3	like, is that because the health the World Trade Center health registry at the
4	health department actually surveillance is what it's doing already. But the clinical
5	data or the data collected in the clinical program is underutilized for the purposes of
6	surveillance. This was what, I think, Dr. Melius was striving at. And so the purpose
7	here is to draw attention to it and to find ways of improving its use.
8	<b>DR. WARD:</b> So then the friendly amendment would be, well, WTCHP data?
9	<b>DR. MARKOWITZ:</b> Right, okay. That's fine.
10	MS. SIDEL: But are you confident in the way that it's collected?
11	DR. MARKOWITZ: I'm sorry, I couldn't hear that.
12	MS. SIDEL: Are you confident in the methodology that's being used to
13	collect it, that it's accurate?
14	DR. MARKOWITZ: No, you know, I'm agnostic on that, actually, but I think
15	that would be one of the things to look at is the quality of the data, how accurate it
16	is.
17	DR. ALDRICH: Why limit the investigator to Health Program data? Why
18	shouldn't the investigator be free to use data of good quality from any source?
19	MS. SIDEL: I'm just saying that this is your opportunity, maybe, to improve
20	the methodology for collecting it. You know, like the things I was talking about in
21	monitoring where you're talking to a nurse who's sitting there putting you know,
22	inputting the information into a computer. And then a year later, when you go
23	back, you have to think about that information because it wasn't put in correctly. In
24	other words, if you did it yourself, it would be correct. So if
25	<b>DR. ALDRICH:</b> But that seems like that would be handled by this but what
26	wouldn't be handled by this would be if some researcher had some innovative way
27	to get to link the World Trade Center registry data with the Health Program data,
28	and come up with something new by doing that, that would be concluded if we limit
29	this to just Health Program data.
30	<b>DR. WARD:</b> I have an idea. Could we leave the text as it is but then add:
31	and/or develop additional surveillance methods or surveillance resources?
32	DR. ALDRICH: I like it.
33	<b>DR. WARD:</b> Like that? That could be an and, or an or, and/or develop.
34	<b>DR. MIDDENDORF</b> : Where would that go?
35	<b>DR. WARD:</b> It would just go at the end of this sentence.
36	DR. MIDDENDORF: And/or develop
37	DR. WARD: Additional surveillance resources or data sources. That would
38	include linking or other other data sets.
39	<b>DR. MIDDENDORF</b> : So what is your wording again?

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1	<b>DR. WARD:</b> I think that's good, and/or develop
2	DR. MIDDENDORF: Surveillance data sources
3	DR. WARD: Additional
4	DR. MIDDENDORF: Additional?
5	MS. MEJIA: Or how about improved surveillance?
б	DR. WARD: Improved surveillance data methods or sources? I think just
7	improved surveillance methods would be fine.
8	<b>DR. MIDDENDORF</b> : So the wording that we're looking at at the moment is:
9	Evaluate and improve the utility and use of World Trade Center Health Program
10	data and activities for the purpose of active surveillance and health conditions in
11	WTC-exposed populations and/or develop improved surveillance methods.
12	DR. WARD: Is there somebody who wants to make a motion that that
13	language be adopted?
14	DR. MARKOWITZ: Steve Markowitz. I would propose that.
15	DR. ALDRICH: I'll second that. Tom Aldrich.
16	<b>DR. WARD:</b> So I think we can go ahead and move to a vote.
17	DR. MIDDENDORF: Do people feel like they need to see the wording on this
18	before they can vote?
19	MS. FLYNN: Do you think can you make sure that by the end of this
20	meeting, we get a copy of all the wording that was approved?
21	DR. MIDDENDORF: Yes, I can.
22	<b>MS. FLYNN:</b> That would be really helpful. Thanks a lot, Paul.
23	<b>DR. MIDDENDORF</b> : I just sent this out, so you should be able to see it in a
24	minute or so, hopefully a little less.
25	<b>MS. FLYNN:</b> I just got surveillance, thanks.
26	DR. MIDDENDORF: Okay.
27	<b>MS. FLYNN:</b> But like a cumulative list of all the things we've voted on.
28	Great.
29	<b>DR. MIDDENDORF</b> : Yeah, it's actually I've got that cumulative list here in
30	a document that I'm gonna be sharing on the web. Unfortunately, you're not able
31	to see it. But yes, I will send this document out.
32	Okay, I guess we're proceeding to a vote. Tom Aldrich?
33	DR. ALDRICH: Yes.
34	DR. MIDDENDORF: John Dement?
35	DR. DEMENT: Yes.
36	DR. MIDDENDORF: Kimberly Flynn?
37	MS. FLYNN: Yes.
38	DR. MIDDENDORF: Bob Harrison? Catherine Hughes?
39	MS. HUGHES: Yes.

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1	DR. MIDDENDORF: Steve Markowitz?
2	DR. MARKOWITZ: Yes.
3	DR. MIDDENDORF: Guille Mejia?
4	MS. MEJIA: Yes.
5	DR. MIDDENDORF: Carol North?
6	DR. NORTH: Yes.
7	DR. MIDDENDORF: Julia Quint?
8	DR. QUINT: Yes.
9	DR. MIDDENDORF: Bill Rom?
10	DR. ROM: Yes.
11	DR. MIDDENDORF: Susan Sidel?
12	MS. SIDEL: Yes.
13	<b>DR. MIDDENDORF</b> : Susan, if you're responding, it's not coming through.
14	MS. SIDEL: Oh, yes.
15	DR. MIDDENDORF: Glenn Talaska?
16	DR. TALASKA: Yes.
17	<b>DR. MIDDENDORF</b> : Leo Trasande? Leo, if you responded, I didn't hear you.
18	I'm still not hearing anything from Leo. Liz Ward?
19	DR. WARD: Yes.
20	<b>DR. MIDDENDORF</b> : Okay. That's 12 yes, zero noes, and zero abstentions.
21	Motion passes.
22	<b>DR. WARD:</b> Okay, so I think we're ready to move on to the critical research
23	knowledge gap relative to the accurate diagnosis of WTC-related health conditions.
24	And what I'd like to do, as much as possible, is for people to, you know, really try to
25	propose topics that they think really are of significant and broad importance, and to
26	try to propose them in words kind of along the same lines as the ones we've voted
27	on. So if you can propose the final lang something close to the final language that
28	we can move forward.
29	So I think the first one that we should consider is the one that was already
30	proposed by Carol North related to the psychiatric diagnoses. And Paul, I think you
31	have that while you were putting it in the
32	<b>DR. MIDDENDORF</b> : Yes. The wording is: Differentiate psychiatric disorders
33	from symptoms and distress in relation to disaster exposure and develop efficient
34	and effective methods for diagnosis of disaster-related psychopathology in
35	populations and individuals.
36	And I am going to send that out 'cause it's long and complicated.
37	<b>DR. WARD:</b> Okay, do we have a second? I assume that we can assume I
38	assume that Carol has put that forward as a motion, and is there a second?
39	<b>DR. MIDDENDORF</b> : Okay, I've just I've sent it out.

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1	<b>DR. WARD:</b> Okay, people need a minute to look at it and then we'll ask for
2	a second.
3	MS. SIDEL: My message has no content. Paul?
4	<b>DR. MIDDENDORF</b> : Yeah, let me look.
5	MS. SIDEL: Weird.
6	DR. MIDDENDORF: The one I sent has content. Let me resend.
7	DR. ALDRICH: I just got it.
8	MS. SIDEL: Yeah, I got it. I have it, thank you.
9	DR. MIDDENDORF: Okay.
10	<b>DR. WARD:</b> Okay, and so do we have a second for that motion?
11	<b>DR. HARRISON:</b> This is Bob Harrison, second.
12	<b>DR. WARD:</b> Okay. Is there any further discussion on the motion?
13	DR. MARKOWITZ: This is Steve Markowitz. Carol, could you just succinctly
14	describe again the importance of this differentiating disorders from symptoms of
15	distress?
16	<b>DR. NORTH:</b> I'm glad you asked that because I wasn't sure that everything
17	that I intend for this is getting across. And basically we know a lot about symptoms
18	but we don't know enough about psychiatric disorders. Most of the studies have
19	looked at symptoms and it's not clear what symptoms mean. They've used
20	symptoms screeners rather than assess psychiatric disorders. And I think that it's in
21	parallel to study of cancer. We don't study cancer symptoms; we study cancer. And
22	I don't think we want to give psychiatric illness the short, short shrift. That's what I
23	meant.
24	<b>DR. MARKOWITZ:</b> So, I wonder whether you're discussing evaluating the
25	clinical significance of symptoms and distress.
26	<b>DR. NORTH:</b> Well, that could be a side sheet. But right now we don't have
27	enough data about properly measured psychiatric disorders. Most of our data is
28	about symptoms that we don't know what they really mean and we don't have the
29	data on disorders to, to know what symptoms outside of that context means.
30	<b>DR. MARKOWITZ:</b> How about evaluating the rather than symptoms and
31	distress in relation to psychiatric disorders, to differentiate that I mean, I don't
32	want to take much time here but
33	<b>DR. NORTH:</b> No, I understand what you're saying. We have way too many
34	symptoms outside of diagnosis, and I think in the end what we're gonna care about
35	is diagnosis.
36	DR. MARKOWITZ: Right.
37	<b>DR. NORTH:</b> We know that people are distressed; that's a given. But what
38	we want to do is identify people with disorders that need treatment, and then give
39	general interventions to the distressed populations.

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1	<b>DR. MARKOWITZ:</b> So you want to understand the relationship between
2	symptoms and distress on the one hand, and the development of psychiatric
3	disorders?
4	<b>DR. NORTH:</b> Well, we, we want to differentiate them because right now the
5	literature doesn't.
6	DR. MARKOWITZ: Okay.
7	<b>DR. NORTH:</b> And that's a mistake.
8	DR. MARKOWITZ: Okay, I understand.
9	MS. SIDEL: I don't understand. Could you, could you explain that part again
10	to me?
11	DR. NORTH: Okay, most of the literature we have is about symptoms of
12	PTSD.
13	MS. SIDEL: Right.
14	DR. NORTH: Symptoms of this and that.
15	MS. SIDEL: Right, right, right.
16	DR. NORTH: And it's just hard to know what that means or what to do with
17	it. You don't have enough research that it's taking the effort to accurately diagnose
18	and identify disorders for specific treatment.
19	MS. SIDEL: But how but I don't, I don't see where the how does it get to
20	a disorder? I mean, is that
21	<b>DR. NORTH:</b> Well, we have carefully defined criteria.
22	MS. SIDEL: Oh.
23	DR. NORTH: We just haven't used them.
24	<b>MS. SIDEL:</b> So they're not like calling it by a name.
25	DR. NORTH: Well, sometimes they mistakenly call it by name. They
26	measure symptoms and they call it PTSD or depression when really it's not.
27	MS. SIDEL: But what else would it be?
28	DR. NORTH: What's that?
29	MS. SIDEL: What would be symptoms like what would be what would
30	be what would be a correct diagnosis?
31	DR. NORTH: Well, PTSD or major depression. Those are the common ones
32	that develop after disasters.
33	<b>MS. SIDEL:</b> Right, and why wouldn't they be that?
34	<b>DR. NORTH:</b> They don't. It's labor intensive; they haven't developed the
35	efficient methods to do that, and so we often settle for symptoms of thus and such,
36	and I think that's about as satisfying as measuring symptoms of cancer. I'd like to
37	study cancer, not symptoms of cancer. These are difficult concepts but they're very
38	important.
39	MS. SIDEL: No, I, I understand the concepts, but I just don't see why they

1       don't think that they're already doing that because I think they I think that they         2       think that they're doing that.         3       DR. NORTH: It could be. I'd like to see things be done differently so that we         4       can advance knowledge.         5       DR. WARD: Does anyone else have any thoughts on this point or any         6       questions about it? I'll tell you my point of view is that I don't feel that I fully grasp         7       it but I think it's probably an important question, and it might result in some         8       proposals that would be really able to address it, and it may not. I mean, it, you         9       know, really is going to require people who both understand the nature and who         10       understand the nature and importance of the question and can think of ways to         11       address it.         12       But, you know, I don't I think we very few of us have expertise in         13       psychiatric disorders, and I so I tend to want to defer to Dr. North's expertise on         14       this. And again, I don't think it's really going to generate a lot of proposals but we         15       might it might bring forth a really good and important proposal if we include it in         16       them will understand the enough to generate proposals, and if judging the proposals,         17       Dr. NORTH: I think because we have psychiatric
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22   correct, Paul?     23   DR. MIDDENDORF: Yes.
23 DR. MIDDENDORF: Yes.
24 <b>DR. WARD:</b> So perhaps we should move to the vote so that we can consider
25 the ideas in this topic in this area that we haven't even put on the table yet.
26 <b>DR. MIDDENDORF</b> : Okay. Motion on the table is: Differentiate psychiatric
27 disorders from symptoms of distress in relation to disaster exposure and develop
28 efficient and effective methods for diagnosis of disaster-related psychopathology in
29 populations and individuals. So going to the vote, Dr. Aldrich?
30 DR. ALDRICH: Yes.
31 DR. MIDDENDORF: John Dement?
32 DR. DEMENT: Yes.
33 DR. MIDDENDORF: Kimberly Flynn?
34 MS. FLYNN: Yes.
35 <b>DR. MIDDENDORF</b> : Bob Harrison?
36   DR. HARRISON: Yes.
37 <b>DR. MIDDENDORF</b> : Catherine Hughes?
38 MS. HUGHES: Yes.
39         DR. MIDDENDORF: Steve Markowitz?

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1	DR. MARKOWITZ: Yes.
2	<b>DR. MIDDENDORF</b> : Guille Mejia?
3	MS. MEJIA: Yes.
4	DR. MIDDENDORF: Carol North?
5	DR. NORTH: Yes.
6	DR. MIDDENDORF: Julia Quint?
7	DR. QUINT: Yes.
8	DR. MIDDENDORF: Bill Rom?
9	DR. ROM: Yes.
10	DR. MIDDENDORF: Susan Sidel?
11	MS. SIDEL: Yes.
12	DR. MIDDENDORF: Glenn Talaska?
13	DR. TALASKA: Yes.
14	DR. MIDDENDORF: Leo Trasande? Liz Ward?
15	DR. WARD: Yes.
16	DR. MIDDENDORF: Thirteen yes, zero noes, zero abstentions. Motion
17	passes.
18	<b>DR. WARD:</b> So the floor is now open for additional proposals in relation to
19	critical research gaps relative to accurate diagnosis of World Trade Center-related
20	health conditions.
21	And maybe on this one we should try to get indication of who, who has one
22	that they would like to propose. How many people who would like to propose a
23	specific point?
24	<b>DR. MARKOWITZ:</b> This is Steve Markowitz. I'd like to propose something.
25	<b>DR. WARD:</b> Is there anyone else who has something in mind that they'd like
26	to propose? Okay. Steve, go ahead.
27	<b>DR. MARKOWITZ:</b> This I mentioned this before. It actually pertains to
28	diagnosis and treatment. But it would be to examine the patterns of healthcare
29	utilization in the World Trade Center Health Program and the utility of the medical
30	monitoring activities of also of the World Trade Center Health Program.
31	The purpose of this is to encourage
32	<b>MS. FLYNN:</b> Can you speak up louder, please? I can't hear you very well.
33	<b>DR. MARKOWITZ:</b> Sure. So the purpose of this is to is to take a rigorous
34	look at actually what the World Trade Center Health Program is doing in terms of
35	the treatment and also in terms of the medical monitoring so that we can learn,
36	learn about these programs, maybe how they can be improved but also how they
37	can be designed for the future.
38	DR. WARD: So Paul, have you been able to capture that?
39	<b>DR. MIDDENDORF</b> : Sorry, I was on mute. I only got the first part: Examine

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1	the patterns of healthcare utilization
2	<b>DR. MARKOWITZ:</b> Yeah, I just sent it to you, Paul. I don't know how quickly
3	it'll come.
4	<b>DR. MIDDENDORF</b> : Okay. Yep, it's here. Okay.
5	<b>DR. MARKOWITZ:</b> And I welcome, you know, language which is more
6	complete or more refined.
7	<b>DR. ALDRICH</b> : I think what's missing in this is your point that doing this will
8	lead to improvement in design of future programs. But somehow that point has to
9	get into this.
10	<b>MS. SIDEL:</b> Well, wait. Don't you mean how, how to improve this program
11	like right now?
12	<b>DR. MARKOWITZ:</b> Yeah, for both purposes, actually.
13	<b>DR. ALDRICH</b> : Yeah, but I mean, you want to propose more than just an
14	examination. An examination
15	DR. MARKOWITZ: Right, right.
16	<b>DR. ALDRICH</b> : leading to the design of better.
17	MS. SIDEL: Well, monitoring the problem, because it takes so long, you
18	know, you're in there for the whole day. Is that the kind of thing you're talking
19	about?
20	DR. MARKOWITZ: That would be one aspect, sure.
21	MS. SIDEL: Because I think that more people would come if it was a more
22	streamlined process. I think that's really good.
23	DR. MARKOWITZ: But, Tom, so what other verbs should be added to this?
24	<b>DR. ALDRICH</b> : Maybe after the, after the examine, examine the value and
25	efficacy or something?
26	MS. SIDEL: Why don't you just say improve the efficacy of the monitoring
27	program and
28	<b>DR. ALDRICH:</b> Yeah, but you know what, the scientist doesn't have the
29	opportunity to improve; he has the opportunity to suggest improvements.
30	<b>MS. SIDEL:</b> Right. Well, right. So that would be good.
31	<b>DR. ALDRICH:</b> Well, I agree but I mean, so what the scientist will actually do
32	will be examine the value or examine the use or examine the quality or something.
33	<b>MS. FLYNN:</b> This is Kimberly. Would there be a possibility also of including
34	language about barriers to care? Or is that already included in the notion of
35	healthcare utilization?
36	<b>DR. MARKOWITZ:</b> Well, I think it would be that would be included in
37	patterns actually.
38	MS. FLYNN: Okay. In patterns?
39	DR. MARKOWITZ: Yeah.

1	<b>MS. FLYNN:</b> Okay, so then we should keep the word patterns.
2	<b>DR. WARD:</b> So Paul, I think the way you're capturing it is not quite the way
3	it's intended.
4	DR. MIDDENDORF: Okay.
5	DR. WARD: Steve, can you see the screen?
6	DR. MARKOWITZ: Hold on.
7	<b>DR. WARD:</b> I think the value and efficacy was the, was the replacement for
8	utility. So I think it was examine the patterns of healthcare utilization in the WTCHP
9	and the value and efficacy of medical monitoring activity. I think that's what was
10	intended.
11	DR. MARKOWITZ: Yeah, I'm sorry. I'm not seeing what Paul's written. So
12	Paul, if you could read it, then I can get it.
13	<b>DR. MIDDENDORF</b> : Yeah, let me read it out. Examine the value and efficacy
14	of patterns of healthcare utilization in the World Trade Center Health Program and
15	the value and efficacy of the medical monitoring activities of the WTCHP.
16	<b>DR. MARKOWITZ:</b> Oh, that's fine.
17	<b>DR. WARD:</b> And I guess the thing that doesn't make sense to me is the
18	value and efficacy of patterns of healthcare utilization. I mean, you don't look at the
19	value and efficacy of a pattern.
20	DR. MARKOWITZ: Right, right.
21	DR. WARD: So I'm suggesting taking that out of there and just looking at
22	examine patterns of healthcare utilization and the value and efficacy of the medical
23	monitoring activities?
24	DR. MARKOWITZ: Yeah, that makes more sense actually, because we
25	don't we're not getting into evaluating the efficacy of treatment; that would be a
26	mistake. So I think the patterns in the first half and the efficacy in the second is fine.
27	DR. MIDDENDORF: I think I what I I copied value and efficacy from the
28	first part into the second part. So the way it reads is: Examine patterns of
29	healthcare utilization in the WTCHP and the value and efficacy of the medical
30	monitoring activities of the WTCHP.
31	DR. MARKOWITZ: All right. That's good.
32	MS. MEJIA: This is Guille. I have a little friendly amendment to that. Is it
33	possible for it to read: Examine patterns of healthcare utilization and delivery in the
34	World Trade Center Health Program? So we're looking at the delivery of the
35	healthcare as well as the utilization of it.
36	DR. MARKOWITZ: That's fine.
37	DR. MIDDENDORF: And delivery of what?
38	<b>DR. WARD:</b> Don't need the, of. I think you can just get rid of the, of.
39	Healthcare utilization and delivery in.

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1	<b>DR. MIDDENDORF</b> : Delivery of what?
2	<b>DR. MARKOWITZ:</b> No, it's the delivery of healthcare. But if you just put
3	utilization and delivery, it's fine.
4	MS. MEJIA: Right.
5	<b>DR. MIDDENDORF</b> : So the wording is: Examine patterns of healthcare
б	utilization and delivery in the World Trade Center Health Program and the value and
7	efficacy of the medical monitoring activities of the WTCHP.
8	<b>DR. MARKOWITZ:</b> Yeah, that's good.
9	<b>DR. MIDDENDORF</b> : Okay, so that's the motion; is it seconded?
10	MS. HUGHES: Yes. Catherine here.
11	DR. MIDDENDORF: Okay.
12	<b>DR. WARD:</b> We're ready for a vote.
13	DR. MIDDENDORF: Okay. Tom Aldrich?
14	DR. ALDRICH: Yes.
15	DR. MIDDENDORF: John Dement?
16	DR. DEMENT: Yes.
17	DR. MIDDENDORF: Kimberly Flynn?
18	MS. FLYNN: Yes.
19	DR. MIDDENDORF: Bob Harrison?
20	DR. HARRISON: Yes.
21	DR. MIDDENDORF: Catherine Hughes?
22	MS. HUGHES: Yes.
23	DR. MIDDENDORF: Steve Markowitz?
24	DR. MARKOWITZ: Yes.
25	DR. MIDDENDORF: Guille Mejia?
26	MS. MEJIA: Yes.
27	DR. MIDDENDORF: Carol North?
28	DR. NORTH: Yes.
29	DR. MIDDENDORF: Julia Quint?
30	DR. QUINT: Yes.
31	DR. MIDDENDORF: Bill Rom?
32	DR. ROM: Yes.
33	DR. MIDDENDORF: Susan Sidel?
34	MS. SIDEL: Sorry, yes.
35	DR. MIDDENDORF: Glenn Talaska?
36	DR. TALASKA: Yes.
37	DR. MIDDENDORF: Leo Trasande? Liz Ward?
38	DR. WARD: Yes.
39	<b>DR. MIDDENDORF</b> : That's 13 yes, zero noes and zero abstentions. Motion

1	passes.
2	<b>DR. WARD:</b> So is there anyone else who'd like to propose a research gap
3	relative to accurate diagnosis of World Trade Center-related health conditions?
4	MS. FLYNN: This is Kimberly, and I'm afraid I'm not the ideal person to
5	phrase this, but wouldn't examining epigenetic alterations relevant to disease play
6	an important role in diagnosis?
7	<b>DR. MARKOWITZ:</b> Not really in diagnosis.
8	MS. FLYNN: Okay.
9	DR. MARKOWITZ: I mean, you know, in mechanism of the disease, sure,
10	but not, to my knowledge, not in diagnosis.
11	MS. FLYNN: Okay.
12	<b>DR. WARD:</b> Okay, so I just looked back at Dr. Crowley's my notes from Dr.
13	Crowley, and I didn't see any of the topics that she mentioned that specifically
14	would fall into this category. I think one of the important points that she made, that
15	we still need to capture but it maybe falls better under 3, is did early intervention
16	make a difference in outcome.
17	MS. SIDEL: Early intervention does make a difference in outcome, but if
18	you're not paying attention to something because you're just not paying attention
19	to it, then you're gonna have a bad outcome, and that was the point of asking for
20	research.
21	DR. WARD: I guess one of the things I mean, one of the things that
22	people can propose to look at in the World Trade Center in the previous priority
23	area is whether the these the selection of things that are being monitored for is
24	appropriate or might be too defined to detect other conditions. I mean, that, that
25	could be a topic under that last priority area.
26	MS. SIDEL: I think they've become so limited in air as digested, that other
27	things are not considered. And they're not it's not a matter of that there aren't so
28	many of them that they're being hit over the head with it. I mean, there's a lot of
29	cancer but cancer happens because there's a lot of press about it.
30	DR. WARD: Well, I think that this
31	<b>MS. SIDEL:</b> Like there are a lot of political factors that go into a lot of these,
32	you know, decisions, and having you know, early detection is critical but it
33	doesn't it's not going to happen unless you're recognizing things and you're
34	looking for new things actively. And that's been my, my comment. And I said this in
35	2011, and I think we're just, you know, going in circles, like we're just studying you
36	know more parts of the same issues.
37	DR. WARD: I think we I think we think we covered that under the first
38	priority under topic 1. So I guess, unless anyone has something additional to
39	propose with regard to accurate diagnosis of WTC-related health conditions, we

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1	should move on to research gaps relative to effective treatment of WTC-related
2	health conditions.
3	MS. FLYNN: Well, Liz, I have one this is Kimberly I have one additional
4	question, and again, it's not only you see a need for me to separate out the
5	diagnostic and the treatment part, so forgive me if this is not relevant, but the
6	whole issue of comorbidity, particularly between severe respiratory conditions and
7	PTSD, does that I guess, my question is where in this scheme would that fall?
8	Because this is something that has been raised by World Trade Center Health
9	Program clinicians.
10	DR. WARD: I'm hoping some of our clinicians
11	<b>DR. ALDRICH:</b> That's on the topic of several of the research grants, and
12	there are a number of papers about comorbidity. There's lots more to be done. But
13	it's not really a research gap, right? Hasn't that already been identified as a
14	problem?
15	MS. FLYNN: It certainly has been identified as a problem. I think, and
16	forgive me; I don't have this handy, but we had some language from, from survivor
17	program mental health folks that talked about the effects of comorbid conditions
18	and additional risks that talked about final common pathways. I don't know
19	whether folks feel that this has received adequate attention or Again, yes, if it's
20	not if it's not a pressing gap, you know, I understand that as the standard for
21	inclusion on this list. But it's not for me to say whether it's a pressing gap.
22	<b>DR. WARD:</b> I mean, I think I'm not sure where it would belong but I guess,
23	if I was to try to articulate it, it would be, as a research gap, it would be
24	understanding mechanisms underlying
25	MS. FLYNN: Yeah, that makes sense.
26	DR. WARD: apparent
27	MS. FLYNN: That makes sense.
28	<b>DR. WARD:</b> associations between, you know, underlying common
29	pathways for certain for WTC-related conditions or something. Does any does
30	anyone else feel strongly that that should be included somewhere?
31	<b>DR. MIDDENDORF</b> : Could you just repeat, repeat what the idea is again?
32	<b>DR. WARD:</b> I'm thinking that what we're trying to capture is underly
33	understand mechanisms underlying associations between WTC-related co-
34	morbidities such as PTSD and respiratory disease. Understanding why these two
35	conditions I mean, is it purely exposure-mediated or are there other is it
36	something related to the mechanism or pathophysiology of these conditions that
37	make them more likely to occur together. I think that's what Kimberly is getting at.
38	MS. FLYNN: Yeah, thank you.
39	<b>DR. WARD:</b> And you've got another I mean, do you get what she meant

1	and could you say it in another way, Steve?
2	<b>DR. MARKOWITZ:</b> No, no, no. I wasn't my concern about that, it's not
3	that it doesn't have value but my concern about that is that it doesn't really
4	contribute in a short-term way to the welfare of the World Trade Center exposed
5	population. It doesn't kind of help us understand the clinical expression or the
6	epidemiologic expression or early intervention in a way that I can see in the near
7	future as helping people. That's, that's my problem with that.
8	<b>DR. WARD:</b> Okay, so does, does anyone else want to spend time working
9	on this some more or should we just table it, put it in the parking lot as something
10	that we don't have time to fully develop during this meeting?
11	Okay. I guess I haven't heard any sentiments that we should go forward
12	with it. So the one thing that seems clear to me in terms of critical knowledge gaps
13	relative to effective treatment of WTC-related health conditions is the concept of
14	more research to determine whether early intervention makes a difference in
15	certain outcomes.
16	<b>DR. ALDRICH:</b> It's hard to talk about early intervention when we're now 12
17	and a half years out.
18	MS. FLYNN: Yeah.
19	DR. WARD: Well, it would have to be well, I mean, I guess it would have
20	to be retrospective. I mean, it would have to be some kind of a retrospective study
21	concerning people. I mean, people may have been diagnosed at one or two years
22	post-exposure and some of them may have received an intervention. I don't
23	MS. SIDEL: There's a, there's a gap between diagnosis and actual
24	treatment. You know, you could be diagnosed when it was just a when it was just
25	a you know, they were just doing diagnostic stuff and then it was a year or two
26	before they opened up the treatment program. So for some people they if they
27	didn't go to their private doctors to follow up on whatever happened in their, in
28	their, I think it was called help for heroes appointment, there would be a big gap in
29	treatment.
30	<b>DR. WARD:</b> Well, I guess, I mean, there may not may or may not be
31	opportunities to look at it 'cause it's true, early intervention could require early
32	diagnosis.
33	MS. FLYNN: This is Kimberly, and I guess the one example that I feel meets
34	that standard is that Dr. Trasande is looking at cardiometabolic in disease in people
35	exposed as children. And certainly if, if those start to show up, and one of the
36	things he's seen in a pilot study is kids who have exposed kids who have high
37	blood pressure but don't have, you know, the usual overweight you know, their,
38	their weight is normal, they have high blood pressure. So he's looking at something
39	like that, and certainly, you know, if this shows up in his study of, what, 250 exposed

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1	kids, then that would provide a basis for early intervention to prevent, you know,
2	chronic heart disease, et cetera, if I'm not mistaken.
3	<b>DR. WARD:</b> Yes. I think, though, the question is you want to I mean, I
4	think where this might be most common is, is people who did or did not receive
5	certain interventions for respiratory medicines or I mean, it does seem like it
6	would be an important question to answer but it would require framing what, what
7	the specific intervention was. And seeing whether the you know, the if
8	everyone got treat if everyone who was diagnosed was treated pretty similarly,
9	then I'm not sure you could study it. But if there are opportunities to compare
10	people who were had similar conditions and some were diagnosed early and
11	aggressively treated and others were maybe diagnosed but not aggressively treated.
12	I mean, should we throw this open as a topic of research or do people think it's not
13	likely enough to be approved and we don't want to put it on the list?
14	MS. SIDEL: The other thing is that even if you did get treated, it's not like
15	you can be cured. It doesn't you know, it doesn't go away. It's just sort of
16	managing symptoms.
17	DR. WARD: Clinicians? World Trade Center Program, what do you think?
18	Do you want this in or do you want this not in?
19	<b>DR. ALDRICH:</b> This is Tom Aldrich. I favor not doing this just because we
20	have more pressing issues about current treatments than about, about looking back
21	at what happened 12 and a half years ago.
22	<b>DR. WARD:</b> Okay. So anyone strongly disagree with that? Okay. So then
23	the question is
24	<b>DR. MIDDENDORF</b> : I just do want to point out that you have the option of
25	including it on the list and then giving it a low priority. That is one of your options.
26	<b>DR. ALDRICH:</b> Is this list exclusive; that is, no grant that addresses
27	something that's not on this list will be considered?
28	<b>MS. SIDEL:</b> That's a good question.
29	<b>DR. MIDDENDORF</b> : No. What, what you provide to the, to the
30	administrator will all of these things will be considered as part of a larger
31	consideration. Information will be gathered from other sources as well. So this is
32	just one avenue of gathering information about what the research needs are.
33	DR. ALDRICH: Okay.
34	<b>MS. SIDEL:</b> Can I raise something that's a new gap of knowledge or that's
35	something that should be researched? Is that all right or are we past that?
36	<b>DR. WARD:</b> No, we're still on it. Ideally it's things related to types of
37	treatment of WTC-related health conditions 'cause that's the that's the area of
38	research gaps that we're, we're trying to flesh out now.
39	<b>MS. SIDEL:</b> Well, one thing that I'm concerned about, and I think it's gonna

1	get worse with cancer because the treatment is that side effects sorry about my
2	dog side effects from medications. And I don't, you know, know if those things
3	should get certified or if you can get treated for those or how that's going to work.
4	For example, Nexium causes hang on one second, sorry. You know,
5	Nexium, which a lot of us take a couple times a day, you know, it causes
6	osteoporosis; so do all the inhalers. I don't know if that's being monitored or
7	tracked but it's something that can come up for people. It's a lot of side effects
8	from a lot of medications, and I think, with the cancer drugs, that that's even more
9	severe.
10	DR. ALDRICH: I think that's a really interesting concept because with
11	we've got a lot of things on the list of conditions associated with the World Trade
12	Center, and maybe with all the drugs, we're bringing in a lot more conditions.
13	MS. SIDEL: Yeah, I don't think there's a way around it. I think that you
14	create the conditions just because it just happens. But it's also interesting 'cause it's
15	not something that, you know, when you're told when you're on Nexium note
16	by the way, this could cause osteoporosis. You know, I found out about it on the TV
17	commercial about Nexium. You know, 'cause it's just you just wouldn't think
18	about it.
19	There's a lot of issues like that, and I think a lot of these medications, and
20	especially for many of us who are on like multiple medications, it just compounds
21	the initial effects of like one medication. And it's I mean, it's kind of like modern
22	medicine but I think it, it's concerning.
23	<b>DR. ALDRICH:</b> Yeah, so that's all about risk benefit, right? So it's I mean, I
24	think it would be very interesting to examine the risks versus benefit or the
25	benefits versus drawbacks of taking World Trade Center-related medication.
26	MS. SIDEL: Well, and like what the options are because, if you're not taking
27	Nexium and you can't do inhalers or you take nose spray that has, that has steroids
28	in it, it's going to be bad for your glands, what are your what are your choices?
29	There's not I mean, there are not very many other choices out there.
30	MS. FLYNN: So let's come up with the wording for this 'cause it seems to be
31	a good idea. Can someone put articulate it well?
32	MS. SIDEL: Not me. I have cognitive issues. Let's see.
33	MS. FLYNN: How about studying the side effects of drugs that were
34	administered to World Trade Center diseases? Of drugs administered to treat
35	World Trade Center
36	MS. SIDEL: Right.
37	DR. ALDRICH: I like it. Simple, the, the researcher can make with it make
38	of it what he or she chooses.
39	MS. HUGHES: Yeah, and I remember some of the first responders also

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1	complaining about in, in Washington.	
2	<b>DR. WARD:</b> Okay, so do we have a motion for this?	
3	<b>DR. MIDDENDORF</b> : Yeah, let me read it so that everybody is sure of what it	
4 r	is. Study the side effects of drugs administered for treatment of World Trade	
5	Center-related diseases.	
6 7	MS. FLYNN: I like it. DR. MIDDENDORF: So we need a motion and a second.	
8	MS. HUGHES: Yes.	
o 9		
9 10	<b>DR. MIDDENDORF</b> : Yeah. Yes, you're submitting this as a motion?	
10	MS. HUGHES: Yes, Catherine is.	
12	DR. MIDDENDORF: Okay. DR. WARD: And who is the second?	
13	<b>DR. ALDRICH:</b> I'll second it. Tom Aldrich.	
13 14	<b>DR. MIDDENDORF</b> : Okay. Are we ready for a vote, then? Tom Aldrich?	
15	DR. ALDRICH: Yes.	
16	DR. MIDDENDORF: John Dement?	
17	DR. DEMENT: Yes.	
18	DR. MIDDENDORF: Kimberly Flynn?	
19	MS. FLYNN: Yes.	
20	DR. MIDDENDORF: Bob Harrison?	
21	DR. HARRISON: Yes.	
22	DR. MIDDENDORF: Catherine Hughes?	
23	MS. HUGHES: Yes.	
24	DR. MIDDENDORF: Steve Markowitz?	
25	DR. MARKOWITZ: No.	
26	<b>DR. MIDDENDORF</b> : Guille Mejia?	
27	MS. MEJIA: Yes.	
28	DR. MIDDENDORF: Carol North?	
29	DR. NORTH: Yes.	
30	DR. MIDDENDORF: Julia Quint?	
31	DR. QUINT: Yes.	
32	DR. MIDDENDORF: Bill Rom?	
33	DR. ROM: No.	
34	<b>DR. MIDDENDORF</b> : Susan Sidel? Susan? Okay, I'm going to move on.	
35	Glenn Talaska?	
36	DR. TALASKA: No.	
37	DR. MIDDENDORF: Leo Trasande? Liz Ward?	
38	DR. WARD: No.	
39	<b>DR. MIDDENDORF</b> : Eight yes, four noes, zero abstentions. Okay, the	

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1	motion passes.
2	Okay, Susan said you guys got disconnected?
3	MS. SIDEL: Yeah, I got disconnected, sorry.
4	<b>DR. MIDDENDORF</b> : Okay, did you want to vote on that motion?
5	<b>MS. SIDEL:</b> Yeah, what's the motion? How is it worded?
6	<b>DR. MIDDENDORF</b> : The motion says: Study the side effects of drugs
7	administered for treatment of WTC-related diseases.
8	MS. SIDEL: Perfect. Yes.
9	DR. MIDDENDORF: Okay. Change that to nine yes and four noes. Motion
10	passes.
11	<b>DR. WARD:</b> Okay, so let me just ask a question. Is the reason that we're not
12	getting more ideas here in relation to treatment of respiratory diseases the fact that
13	that's already the topic of a lot of research? Or is it just that the committee is
14	getting tired?
15	MS. SIDEL: No, I think that it's been you know, I think it's, it's been a focus
16	for, for all these years.
17	DR. WARD: Okay.
18	MS. SIDEL: I'm not not that there's probably not new things that are
19	coming out but there's just so much work done on it, and I mean, it'll probably
20	always continue but that's but that's one reason why we're not seeing any,
21	anything new is because it's just there just keeps this focus going back on the stuff
22	that's already been done, like some other nuance of it.
23	DR. WARD: Yeah, and I was probably being a little facetious but I think it is
24	important that if, you know, we're really not coming up with a lot of
25	recommendations on items 2 and 3, and I just want to make sure that the
26	committee is, is considering these recommendations as thoroughly as they should
27	because this is, this is our opportunity to influence the research agenda. And if
28	we if there really are some topics that we haven't considered in the area of
29	effective treatment of World Trade Center-related diseases, we should really take
30	the time to think about them.
31	MS. SIDEL: Well, I brought up, you know, using EMDR to treat
32	post-traumatic stress disorder, and then somehow that got turned into something
33	else; I don't know what. But that's a really good treatment for PTSD, that they're
34	not using it in the mental health feature at Mount Sinai anyway. I think that
35	Kimberly said that they haven't (indiscernible) at Bellevue.
36	DR. ALDRICH: I do hear that there's a lot of controversy about what's
37	effective and what isn't effective in treating PTSD, and shouldn't that be a focus?
38	MS. SIDEL: I just think that it's something that, that's out there and it's
39	being used at you know, if it's being used at like other hospitals that are credible

and other credible programs, that maybe we should be able to use it. I know that a lot of volunteers, because they were -- because we were allowed to choose our own doctors, a lot of volunteers are seeing doctors that do EMDR, and the rate of -- just the success that they've had with, you know, coping with their PTSD has been, you know, tremendous, to the extent that you can see the change in people's personalities. You know, they go from being really angry all the time to being pleasant and sort of at peace. It's dramatic, dramatic changes, whereas -- **DR. ALDRICH:** If that is so dramatic, why isn't that the standard of care? And so, so shouldn't we be encouraging people to find out if it's really better than other treatments? **MS. HUGHES:** This is Catherine. I may have a suggestion. I would -- I think

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**MS. HUGHES:** This is Catherine. I may have a suggestion. I would -- I think this is important but I think it's broader than this. And I would say that there are an awful lot of treatments that are being explored for PTSD in various trauma settings but not enough work that is specific to disaster settings, and so I would like to broaden this to treatments in general for specific use in disaster populations.

And a second item that I think might be appropriate to include in this is better utilization of treatment in general, specifically for mental health. And that's it.

**MS. SIDEL:** Part of the problem with the mental health program is that there aren't a lot of people there that are really, really experienced. I mean, the one at Mount Sinai anyway.

You know, the first psychiatrist came to us straight out of school. And she was, she was wonderful. Our second psychiatrist came to us straight out of school. So they haven't had like a lot of like clinical practical experience. They don't have a lot of, you know, peers that have been practicing for a zillion years that can offer advice. It's just the way it is.

And I think that there's another -- a lot of volunteers because there wasn't -we were allowed to choose our own doctors. We, we have some different experiences, and I think that it's worth looking at, those experiences. It's not like everybody went to the same person that did EMDR, but a lot of people, you know, it definitely got around that it worked. And so --

**DR. NORTH:** So it's like (indiscernible) because there are other potential treatments like virtual exposure --

MS. SIDEL: Absolutely.

35DR. NORTH: -- (indiscernible). I wouldn't want to single out one.36MS. SIDEL: Absolutely. Absolutely. I think you're right. I think absolutely.37And I'm not saying that I know the best one but I'm just saying that there's definitely38more out there than doing traditional like, you know, psychoanalysis and talking39about your mommy. You know what I mean? It just -- that just takes forever and

1       doing it in the time that it's taking so long, you know, your life is ticking by.         2       DR. NORTH: Well, I don't think people generally that's not the state of         3       the field, to use psychoanalysis for disaster-related PTSD.         4       MS. SIDEL: Well, that's what they're well, that's what they're doing.         5       They've - they have social workers who are talking to you about, you know, your         6       it's just like it's like traditional therapy, and I don't think it is effective.         7       DR. WARD: Well, Carol, could you give us some wording and propose a         9       DR. NORTH: Something to the effect of: To specifically investigate the         10       effectiveness and utility of treatments for PTSD, specifically investigate the         11       groups or individuals.         12       DR. NORTH: Something to the effect of: To specifically investigate the         13       effectiveness and utility of - wait, that's not right.         14       DR. NORTH: Well, -         15       treatments in disaster-related settings.         16       DR. NORTH: Well, -         17       MS. SIDEL: I think that's what it's about.         18       DR. NORTH: Vell, -         19       MR. NORTH: I don't want to alige any one out, but we         10       usometody has an interest in prolonged exposure,		122
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38 more interesting if we could be treating early on after. And this is why I was not	36	<b>DR. NORTH:</b> I agree, and this is a problem because by now people are going
	37	to be really chronic and it's going to be much, much harder to treat. It would be far
39 enthusiastic about developing items specifically for treatment.	38	more interesting if we could be treating early on after. And this is why I was not
	39	enthusiastic about developing items specifically for treatment.

1	<b>MS. SIDEL:</b> Well, you could continue the people that have had that have
2	had EMDR, that went through the same disaster that got EMDR treatment.
3	<b>DR. NORTH:</b> This is really not as strong of a research design as we would
4	like.
5	MS. SIDEL: Well, I mean, you can't it's like, you know, 13 years later so it's
6	hard to be perfect but it would just show that it would maybe give some impetus
7	for trying some EMDR or trying some other, you know, creative kinds of therapies at
8	Mount Sinai's mental health.
9	DR. NORTH: I would be far more enthusiastic about trying to get people to
10	treatment, who haven't come to treatment. So many people don't go
11	MS. SIDEL: 'Cause they're not going to go to treatment because it doesn't
12	work. This is what I'm telling you; it doesn't work. You know, you're sitting there
13	with a social worker
14	DR. NORTH: But there are people who have used the EMDR treatment that
15	they could go to, and they haven't.
16	<b>MS. SIDEL:</b> Because maybe they can't afford it; they would have to pay for
17	it. We don't offer EMDR treatment in the program. So they'd have to know about it
18	and they'd have to have the resources to go pay for it.
19	<b>DR. NORTH:</b> But that's a utility issue, that the chance that people would go,
20	is more interesting, scientifically.
21	<b>DR. ALDRICH:</b> Wouldn't that wouldn't investigators who wanted to
22	investigate that be able to apply under this priority?
23	<b>MS. SIDEL:</b> You mean like have a grant that would pay for people to go?
24	<b>DR. ALDRICH:</b> No. I'm just saying this, this is one of the priorities, and an
25	investigator who wants to do that study will look at this as a possible funding
26	opportunity and have them compete for it. And if it's a good application, it might
27	prevail. If it's not a good application, it's not gonna get funded.
28	DR. NORTH: That makes sense.
29	<b>MS. SIDEL:</b> All right, but still, all these people in the program that doesn't
30	work and they're not getting anywhere with their lives 'cause they're just depressed
31	and spinning. So well, they
32	<b>DR. ALDRICH:</b> Look, we're all trying to we're all trying to help people, and
33	some people don't get help and some people do. We do the best we can.
34	<b>MS. SIDEL:</b> Right, but if we have but if there's other ways to treat people
35	that are stronger and better, that have more successful results, but
36	DR. ALDRICH: And I don't
37 20	MS. SIDEL: we should research it
38	<b>DR. ALDRICH:</b> And I don't do not
39	<b>MS. SIDEL:</b> well, we should be researching whether or not that's

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1	something that would be better for people.
2	<b>DR. ALDRICH:</b> That's why, that's why a priority like this should be in here.
3	But it shouldn't be we shouldn't go in with the idea that one specific treatment's
4	better than another, a specific unproven treatment.
5	MS. SIDEL: I didn't say that. I said any of the treatments; there's other
6	treatments that they use, there's like cognitive something. There's another one that
7	they use at Mass General that's like more advanced than EMDR; I don't remember
8	the name of it. I'm not an expert at this stuff, but I'm just saying that there are
9	other things that work and that I, I don't think that what's going on now will
10	DR. WARD: Well, I mean
11	<b>MS. SIDEL:</b> I mean, it's worth it to explore some things that could be an
12	alternative.
13	<b>DR. ALDRICH:</b> I think we're all talking about the same thing. So this, this
14	phraseology covers what we want to do, doesn't it? Can't we just accept this and
15	move on?
16	<b>MS. SIDEL:</b> Well, what's the phraseology?
17	DR. ALDRICH: Investigate the effectiveness and utility of specific PTSD
18	treatments in World Trade Center-affected groups or individuals.
19	MS. SIDEL: Well, I guess it's really vague. They could come up with
20	anything. Like they could come up and say that what they're doing works.
21	<b>DR. ALDRICH:</b> That's the point. And if the science is good, then it will get
22	funded. If the science is not good, it will not get funded.
23	MS. SIDEL: Okay.
24	<b>DR. WARD:</b> So I think we have the motion to who will propose the
25	motion?
26	DR. NORTH: This is Carol. I guess I'm the one that proposed the wording so
27	I'll move that we vote on the wording.
28	<b>DR. WARD:</b> Okay, and then do we have a second?
29	DR. ALDRICH: I'll second it.
30	DR. MIDDENDORF: Okay, so the motion on the table is: Investigate the
31	effectiveness and utility of specific PTSD treatments in World Trade Center-affected
32	groups or individuals. And going to the vote, Tom Aldrich?
33	DR. ALDRICH: Yes.
34	DR. MIDDENDORF: John Dement?
35	DR. DEMENT: Yes.
36	DR. MIDDENDORF: Kimberly Flynn? Kimberly, are you with us? I'm not
37	hearing you so we'll move on to Bob Harrison? Bob, are you there? Not hearing
38	anything. Catherine Hughes?
39	MS. HUGHES: Yes.

1       DR. MIDDENDORF: Steve Markowitz?         2       DR. MARKOWITZ: Yes.         3       DR. MIDDENDORF: Guille Mejia?         4       MS. MEIA: Yes.         5       DR. MIDDENDORF: Carol North?         6       DR. NORTH: Yes.         7       DR. MIDDENDORF: Sulia Quint?         8       DR. QUINT: Yes.         9       DR. MIDDENDORF: Susan Sidel?         10       DR. MIDDENDORF: Glenn Talaska?         12       MS. SIDEL: Yes.         13       DR. MIDDENDORF: Carol North?         14       DR. MIDDENDORF: Glenn Talaska?         15       DR. MIDDENDORF: Caronade? Liz Ward?         16       DR. WARD: Yes.         17       MS. FLYNN: Paul? It's Kimberly, I'm sorry. Yes.         18       DR. MIDDENDORF: Yes, okay. So that goes to 12 yes, zero noes and zero         19       abstentions.         20       And I'll point out that we have about ten minutes left.         21       DR. WARD: Okay, so I would propose that we move from the generation of         22       ideas under these three categories to see if there's any sort of priority setting that         23       we can do at this point in time.         24       DR. ALDRICH: It's the one that wasn't unanimous.         25       DR. MARD		125
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	39	people whether they think it's high or not, and just do it high versus not high.

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1	<b>MS. FLYNN:</b> That might be quicker in the time remaining.
2	DR. WARD: Yeah.
3	<b>DR. MARKOWITZ:</b> Yeah, I think high versus not high makes sense.
4	<b>DR. MIDDENDORF</b> : Okay. How about if we just do it this way so that we
5	get a kind of a yes or no vote. Just do motion number 1, and then how many
6	people think it's a high priority; motion number 2, how many people think it's a high
7	priority.
8	DR. WARD: Okay.
9	DR. MIDDENDORF: Then we get the same information that way.
10	<b>DR. WARD:</b> But you still have to go through all the names for each one, I
11	think.
12	<b>DR. MIDDENDORF</b> : I'll do a roll call on each one for its priority.
13	<b>DR. ALDRICH:</b> You're gonna have to do that real quick.
14	<b>DR. MIDDENDORF</b> : Yeah. Okay. Motion 1, is this a high priority, Tom
15	Aldrich?
16	DR. ALDRICH: Yes.
17	DR. MIDDENDORF: John Dement?
18	DR. DEMENT: Yes.
19	DR. MIDDENDORF: Kimberly?
20	MS. FLYNN: Yes.
21	DR. MIDDENDORF: Bob? Catherine?
22	MS. HUGHES: Yes.
23	DR. MIDDENDORF: Steve?
24	DR. MARKOWITZ: Yes.
25	DR. MIDDENDORF: Guille?
26	MS. MEJIA: Yes.
27	DR. MIDDENDORF: Carol?
28	DR. NORTH: Yes.
29	DR. MIDDENDORF: Julia?
30	DR. QUINT: Yes.
31	DR. MIDDENDORF: Bill?
32	DR. ROM: Yes.
33	DR. MIDDENDORF: Susan?
34	MS. SIDEL: Yes.
35	DR. MIDDENDORF: Glenn?
36	DR. TALASKA: Yes.
37	DR. MIDDENDORF: Leo? Liz?
38	DR. WARD: Yes.
39	<b>DR. MIDDENDORF</b> : One, two, three, four, five, six, seven, eight, nine, ten,

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1	eleven, twelve yeses. So the motion was motion 1 is a high priority. And we had,
2	what was the number, 12? Okay. Okay.
3	Motion 2 is a high priority. Characterize the disaster-related exposures that
4	are associated with the development of specific psychiatric disorders.
5	Tom, is that a high priority?
6	DR. ALDRICH: No.
7	DR. MIDDENDORF: I'm sorry?
8	DR. ALDRICH: No.
9	<b>DR. MIDDENDORF</b> : No, I'm okay, thank you. John?
10	DR. DEMENT: No.
11	DR. MIDDENDORF: Kimberly.
12	MS. FLYNN: No.
13	DR. MIDDENDORF: Bob? Catherine.
14	MS. HUGHES: No.
15	DR. MIDDENDORF: Steve?
16	DR. MARKOWITZ: No.
17	DR. MIDDENDORF: Guille?
18	MS. MEJIA: No.
19	DR. MIDDENDORF: Carol?
20	<b>DR. NORTH:</b> I'll stick with my yes.
21	DR. MIDDENDORF: Julia?
22	DR. QUINT: No.
23	DR. MIDDENDORF: Bill?
24	DR. ROM: No.
25	DR. MIDDENDORF: Susan?
26	MS. SIDEL: No.
27	DR. MIDDENDORF: Glenn? Glenn? I'm sorry, what? Glenn?
28	DR. TALASKA: No.
29	DR. MIDDENDORF: Thank you. Leo? Liz?
30	<b>DR. WARD:</b> Yes oh, no. Sorry, no.
31	<b>DR. MIDDENDORF</b> : Okay. One yes, 11 no, zero abstentions.
32	Motion 3: Determine the value of biomarkers for early detection of
33	precancerous conditions, early cancers or other WTC-associated diseases. Is this a
34	high priority? Tom?
35	DR. ALDRICH: Yes.
36	DR. MIDDENDORF: John?
37	DR. DEMENT: Yes.
38	DR. MIDDENDORF: Kimberly?
39	MS. FLYNN: Yes.

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1	DR. MIDDENDORF: Bob? Catherine?
2	MS. HUGHES: Yes.
3	DR. MIDDENDORF: Steve?
4	DR. MARKOWITZ: No.
5	DR. MIDDENDORF: Guille?
6	MS. MEJIA: I'm going to abstain.
7	DR. MIDDENDORF: Carol?
8	DR. NORTH: Yes.
9	DR. MIDDENDORF: Julia?
10	DR. QUINT: Yes.
11	DR. MIDDENDORF: Bill?
12	DR. ROM: Yes.
13	DR. MIDDENDORF: Susan?
14	MS. SIDEL: Yes.
15	DR. MIDDENDORF: Glenn?
16	DR. TALASKA: Yes.
17	DR. MIDDENDORF: Leo? Liz?
18	DR. WARD: Yes.
19	DR. MIDDENDORF: Okay, one, two, three, four, five, six, seven, eight, nine,
20	ten yes; one no, one abstention. Okay, motion passes. That was motion 3.
21	Motion 4: Assess health effects of WTC exposure on gestation and early life,
22	childhood and adolescence. So Tom, is this a high priority?
23	DR. ALDRICH: Yes.
24	DR. MIDDENDORF: John?
25	DR. DEMENT: Yes.
26	DR. MIDDENDORF: Kimberly?
27	MS. FLYNN: Yes.
28	DR. MIDDENDORF: Bob? Catherine?
29	MS. HUGHES: Yes.
30	DR. MIDDENDORF: Steve?
31	DR. MARKOWITZ: Yes.
32	DR. MIDDENDORF: Guille?
33	MS. MEJIA: Yes.
34	DR. MIDDENDORF: Carol?
35	DR. NORTH: Yes.
36	DR. MIDDENDORF: Julia?
37	DR. QUINT: Yes.
38	DR. MIDDENDORF: Bill?
39	DR. ROM: Yes.

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1	DR. MIDDENDORF: Susan?
2	MS. SIDEL: Yes.
3	DR. MIDDENDORF: Glenn?
4	DR. TALASKA: Yes.
5	DR. MIDDENDORF: Leo? Liz?
6	DR. WARD: Yes.
7	<b>DR. MIDDENDORF</b> : Okay. That's 12 yes, zero no, zero abstentions. That
8	motion passes.
9	Okay, motion 5 is a high priority. Motion 5 is: Improved assessment of WTC
10	exposure: inhaled, topical, ingested or other. Okay. Tom Aldrich?
11	DR. ALDRICH: No.
12	DR. MIDDENDORF: John Dement?
13	DR. DEMENT: Yes.
14	DR. MIDDENDORF: Kimberly?
15	MS. FLYNN: No.
16	DR. MIDDENDORF: Bob? Catherine?
17	MS. HUGHES: Medium.
18	DR. MIDDENDORF: Yes or no.
19	MS. HUGHES: No.
20	DR. MIDDENDORF: Steve?
21	DR. MARKOWITZ: Yes.
22	DR. MIDDENDORF: Guille?
23	MS. MEJIA: Yes.
24	DR. MIDDENDORF: Carol?
25	DR. NORTH: Yes.
26	DR. MIDDENDORF: Julia?
27	DR. QUINT: Yes.
28	DR. MIDDENDORF: Bill?
29	DR. ROM: No.
30	DR. MIDDENDORF: Susan?
31	MS. SIDEL: Not sure. I guess I'll say no.
32	DR. MIDDENDORF: Glenn?
33	DR. TALASKA: Yes.
34	DR. MIDDENDORF: Leo? Liz?
35	DR. WARD: No.
36	<b>DR. MIDDENDORF</b> : Okay. One, two, three, four, five, six yes, six no.
37	Motion 6. I'm assuming everybody is okay with the shorthand way of doing
38	our motions?
39	UNIDENTIFIED SPEAKER: Yes.

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1	
1 2	DR. MIDDENDORF: Okay. UNIDENTIFIED SPEAKER: Yes.
∠ 3	
3 4	<b>DR. MIDDENDORF</b> : Okay. Motion 6 is: Evaluate and improve the utility and
4 5	use of WTCHP data and activities for the purpose of active surveillance of health
6	conditions in WTC-exposed populations and/or develop improved surveillance methods.
0 7	Okay, so Tom Aldrich, is this a high priority?
8	DR. ALDRICH: Yes.
o 9	DR. MIDDENDORF: John?
9 10	DR. DEMENT: Yes.
11	DR. MIDDENDORF: Kimberly?
12	MS. FLYNN: Yes.
13	DR. MIDDENDORF: Bob? Catherine?
14	MS. HUGHES: Yes.
15	DR. MIDDENDORF: Steven?
15 16	DR. MARKOWITZ: Yes.
17	DR. MIDDENDORF: Guille?
18	MS. MEJIA: Yes.
19	DR. MIDDENDORF: Carol?
20	DR. NORTH: Yes.
20	DR. MORTH. Tes. DR. MIDDENDORF: Julia?
22	DR. QUINT: Yes.
23	DR. MIDDENDORF: Bill?
24	DR. ROM: Yes.
25	DR. MIDDENDORF: Susan?
26	MS. SIDEL: Yes.
27	DR. MIDDENDORF: Glenn?
28	DR. TALASKA: Yes.
29	DR. MIDDENDORF: Leo? Liz?
30	DR. WARD: Yes.
31	<b>DR. MIDDENDORF</b> : So that's 12 yes, zero no, zero abstentions.
32	Motion 7. Seven is: Differentiate psychiatric disorders from symptoms and
33	distress in relation to disaster exposure and develop efficient and effective methods
34	for diagnosis of disaster-related psychopathology in populations and individuals.
35	Tom, is this a high priority?
36	DR. ALDRICH: Yes.
37	DR. MIDDENDORF: John?
38	DR. DEMENT: No.
39	DR. MIDDENDORF: Kimberly?

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1	MS. FLYNN: Yes.	
2	DR. MIDDENDORF: Bob? Catherine?	
3	MS. HUGHES: No.	
4	DR. MIDDENDORF: Steve?	
5	DR. MARKOWITZ: Yes.	
6	DR. MIDDENDORF: Guille?	
7	MS. MEJIA: Yes.	
8	DR. MIDDENDORF: Carol?	
9	DR. NORTH: Yes.	
10	DR. MIDDENDORF: Julia?	
11	DR. QUINT: Yes.	
12	DR. MIDDENDORF: Bill?	
13	DR. ROM: No.	
14	DR. MIDDENDORF: Susan?	
15	MS. SIDEL: No.	
16	DR. MIDDENDORF: Glenn?	
17	DR. TALASKA: Yes.	
18	DR. MIDDENDORF: Leo? Liz?	
19	DR. WARD: Yes.	
20	DR. MIDDENDORF: Okay. Nine yes, three noes, zero abstentions.	
21	Motion 8 was or is: Examine the patterns of healthcare utilization and	
22	delivery in the World Trade Center Health Program and the value and efficacy of	
23	medical monitoring activities of the World Trade Center Health Program.	
24	Is this a high priority, Tom?	
25	DR. ALDRICH: No.	
26	DR. MIDDENDORF: John?	
27	DR. DEMENT: Yes.	
28	DR. MIDDENDORF: Kimberly?	
29	MS. FLYNN: Yes.	
30	DR. MIDDENDORF: Bob? Catherine?	
31	MS. HUGHES: Yes.	
32	DR. MIDDENDORF: Steve?	
33	DR. MARKOWITZ: Yes.	
34	DR. MIDDENDORF: Guille?	
35	MS. MEJIA: Yes.	
36	DR. MIDDENDORF: Carol?	
37	DR. NORTH: Yes.	
38	DR. MIDDENDORF: Julia?	
39	DR. QUINT: Yes.	

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1	DR. MIDDENDORF: Bill?	
2	DR. ROM: Yes.	
3	DR. MIDDENDORF: Susan?	
4	MS. SIDEL: Yes.	
5	DR. MIDDENDORF: Glenn?	
6	DR. TALASKA: Yes.	
7	DR. MIDDENDORF: Leo? Liz?	
8	DR. WARD: Yes.	
9	<b>DR. MIDDENDORF</b> : Okay. One no and 11 yes. No abstentions.	
10	Motion 9: Study the side effects of drugs administered for treatment of	
11	WTC-related diseases.	
12	Tom, is this a high priority?	
13	DR. ALDRICH: No.	
14	DR. MIDDENDORF: John?	
15	DR. DEMENT: No.	
16	DR. MIDDENDORF: Kimberly?	
17	MS. FLYNN: No.	
18	DR. MIDDENDORF: Bob? Catherine?	
19	MS. HUGHES: No.	
20	DR. MIDDENDORF: Steven?	
21	DR. MARKOWITZ: No.	
22	DR. MIDDENDORF: Guille?	
23	MS. MEJIA: No.	
24	DR. MIDDENDORF: Carol?	
25	DR. NORTH: No.	
26	DR. MIDDENDORF: Julia.	
27	DR. QUINT: No.	
28	DR. MIDDENDORF: Bill?	
29	DR. ROM: No.	
30	DR. MIDDENDORF: Susan?	
31	MS. SIDEL: Yes.	
32	DR. MIDDENDORF: Glenn?	
33	DR. TALASKA: No.	
34	DR. MIDDENDORF: Leo? Liz?	
35	DR. WARD: No.	
36	<b>DR. MIDDENDORF</b> : Okay. One yes and 11 no. Okay.	
37	And motion 10 was: Investigate the effectiveness and utility of specific	
38	PTSD treatments in WTC-affected groups or individuals.	
39	Okay, Tom, is this a high priority?	

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1	DR. ALDRICH: No.
2	DR. MIDDENDORF: John?
3	DR. DEMENT: No.
4	DR. MIDDENDORF: Kimberly?
5	MS. FLYNN: Yes.
6	DR. MIDDENDORF: Bob? Catherine?
7	MS. HUGHES: Yes.
8	DR. MIDDENDORF: Steven?
9	DR. MARKOWITZ: No.
10	DR. MIDDENDORF: Guille?
11	MS. MEJIA: Yes.
12	DR. MIDDENDORF: Carol?
13	DR. NORTH: No.
14	DR. MIDDENDORF: Julia?
15	DR. QUINT: Yes.
16	DR. MIDDENDORF: Bill?
17	DR. ROM: No.
18	DR. MIDDENDORF: Susan?
19	MS. SIDEL: Yes.
20	DR. MIDDENDORF: Glenn?
21	DR. TALASKA: No.
22	DR. MIDDENDORF: Leo? Liz?
23	DR. WARD: Yes.
24	<b>DR. MIDDENDORF</b> : Okay. One, two, three, four, five, six, seven yes, five no.
25	<b>DR. WARD:</b> I think that is a helpful metric that we can use. I think Dr.
26	Howard will find that helpful. Paul?
27	<b>DR. MIDDENDORF</b> : Yes, I'm, I'm here.
28	DR. WARD: Okay.
29	<b>DR. MIDDENDORF</b> : Sorry. Trying to do some quick cleaning here.
30	DR. WARD: Good.
31	<b>DR. TALASKA:</b> You're doing a great job, Paul.
32	
33	ADMINISTRATIVE ISSUES AND ADJOURN
34	<b>DR. MIDDENDORF</b> : Well, okay. So what is the committee going to do?
35	What, what are you planning to do with this or how do you want to present this
36	information to Dr. Howard?
37	<b>DR. WARD:</b> Well, Paul, I mean, we could either draft a cover letter or you
38	could just I mean, you could circulate the list and the tabulations. And then unless
39	anyone has any questions, we could just provide that to Dr. Howard?

	13
1	<b>DR. MIDDENDORF</b> : Yeah, I think even if I send it out to folks, if they
2	disagree with something that's on it, there's nothing that, that can be done about it.
3	<b>DR. WARD:</b> Yeah. So I would say let's just send it to Dr. Howard. We really
4	don't have time to talk about and then first, there'll be the transcript, and
5	certainly NIOSH staff could look at the transcript and, and help Dr. Howard identify
6	the discussion points that are most relevant to his decision-making.
7	DR. MIDDENDORF: Yeah, and I will let you know that we have combed
8	mightily through in great detail through the previous transcripts as we've been
9	writing regulations. So the not just the information but what people say and how
10	they say it are used to a considerable extent. So what you say in the meetings is
11	valuable and is considered to be important.
12	DR. WARD: Good.
13	DR. MIDDENDORF: So
14	<b>DR. WARD:</b> And it's interesting, I have read through the transcripts, 'cause
15	it's one of my roles as the Chair to say that I believe they're accurate, and it is
16	remarkable, sometimes it's embarrassing how you make, you know, you don't use
17	the English language as well as you wish you did, but there really are some very
18	useful discussions in those, in those transcripts.
19	<b>DR. MIDDENDORF</b> : Very much so. So the disposition from the what the
20	committee intends to do, then, is for me to provide this document to Dr. Howard as
21	the their report. Is that what you're telling me?
22	<b>DR. WARD:</b> I think so. That would be my recommendation.
23	<b>DR. MIDDENDORF</b> : How do people feel about that?
24	MS. FLYNN: Well, it sounds good.
25	DR. MIDDENDORF: Any dissensions?
26	<b>DR. TALASKA:</b> It's the product of our day.
27	DR. MIDDENDORF: Sorry?
28	<b>DR. TALASKA:</b> It's the product of our day.
29	<b>DR. MIDDENDORF</b> : Yeah. Okay. Well, since that is what I'm hearing from
30	the committee, that is what I will do, and I will send a copy of this out to everyone
31	so you know what it is and how it all turned out, exactly what happened.
32	Transcripts will be available in a number of weeks.
33	I also want to thank each of you for muscling through this very difficult
34	meeting. The promise of technology often doesn't measure up to what is really
35	needed. And we struggled through, and I very much appreciate your hanging in
36	there and muscling through it with me.
37	MS. SIDEL: Thank you for doing it.
38	DR. WARD: Thank you, Paul
39	UNIDENTIFIED SPEAKER: Thank you.

1	MS. HUGHES: Thank you, Paul. Thank you, Liz.
2	DR. ROBISON: Hey, Paul, this is Allen. I would second that. And I've been
3	listening, and Travis has been listening. It's very helpful to us to listen to the
4	discussions and the sort of the struggles and challenges that you wrestle with in the
5	time that you have to do this, so thank you.
6	DR. WARD: Thank you.
7	DR. MIDDENDORF: Well, with that, I guess we're closing the meeting?
8	MS. SIDEL: So if I'm unhappy about something, could I write a separate
9	letter?
10	<b>DR. MIDDENDORF</b> : You can write something to the administrator at any
11	time.
12	MS. SIDEL: Okay. Thank you.
13	<b>DR. MIDDENDORF</b> : Thank you, everybody.
14	<b>DR. WARD:</b> Have a good weekend everyone. Take care. Bye-bye.
15	(Whereupon, the meeting was adjourned, 5:10 p.m.)
16	

## **CERTIFICATE OF COURT REPORTER**

## STATE OF GEORGIA COUNTY OF FULTON

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of February 14, 2014; and it is a true and accurate transcript of the proceedings captioned herein.

I further certify that I am neither relation 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 9th day of March, 2014.

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