

1 Whenever there is some hot area of controversy
2 in medicine, we tend to hear about from people and get
3 opinion articles. I am wondering why we are not getting
4 much about alternative medicine and CAM, and I wonder if
5 it is because CAM is actually a lot less controversial
6 than some would say. It is there; it is accepted by
7 people that use it.

8 Perhaps people have some perspective on it.
9 Physicians are well aware of its popularity and may not
10 be as threatened by it as is sometimes said. Perhaps it
11 is not as controversial. This does not mean it is
12 accepted as effective, but as a part of our system and of
13 what the consumer wants.

14 DR. LAINE: Part of our aim in inviting a
15 series of papers, the papers in the series are much of
16 the type that you describe. There is a little bit of
17 reviews that are not as critical as we would like, but
18 most of the papers in that series of papers aim to
19 describe the context with which alternative medicine
20 exists in the medical community and the larger society.
21 So, economic issues, ethical issues, medical, legal
22 issues, that have some relevance to our readership.

1 So while we are still waiting for the right for
2 the rigorous scientific evidence about specific
3 therapies, we hope that those sorts of articles help
4 conventional physicians understand the context that this
5 whole discipline exists in.

6 As a sideline, I think there is a perception,
7 like Dr. Relman said, that the conventional medical
8 journals are biased against alternative medicine, papers
9 just reporting on alternative medical therapies. I don't
10 think we are. In fact, one of our hopes is that this
11 will show that we are interested, and maybe will
12 stimulate people to send their research to us. Then, of
13 course, it has to go through the review process.

14 But one of the reasons we don't publish much,
15 is we don't get much. The second reason is, of the stuff
16 we get, a lot of it has methodology problems, but that is
17 no different than a lot of the original research that we
18 get on conventional therapies.

19 DR. GORDON: Thank you. My thought was that
20 there may be some articles that are equivalent to
21 discussions of the hypothalamic pituitary adrenal access,
22 for example, summarizing the data that may be

1 interesting, and certainly would be interesting to
2 readers of mainstream medical journals, as well as,
3 perhaps, opinion pieces.

4 Dean, and Joe, and Effie, and Wayne.

5 DR. ORNISH: Well, again, I want to thank the
6 people for such eloquent testimony. I really appreciate
7 it.

8 Several people have said that a distinction
9 should not be made between CAM and other medical
10 modalities, either from the standpoint of funding or
11 publication. I certainly completely share that ideal and
12 your commitment to doing good science. It is certainly
13 how I spend most of my time, but we have heard testimony
14 from several people who have testified before our
15 Commission that certain journals are more likely to
16 publish an article showing a negative finding from a CAM
17 modality than a positive one.

18 I am addressing this question to Dr. Campion.
19 In the three priorities that you outlined in your
20 testimony a few minutes ago, the top one was to give
21 priority to those few complementary and alternative
22 medicine methods that can cause harm.

1 Do you also have the same commitment to
2 articles that show safety, efficacy, and effectiveness?

3 DR. CAMPION: I think, as Dr. Roman outlined,
4 the basic principle is, we will consider any manuscript
5 on its merits. If the subject is important, if the
6 intervention is important, which means it is something
7 that is in wide use or has potential benefits, we will
8 consider it. We don't get many of those. I am not sure
9 if we have gotten any.

10 We do publish a fair number of negative
11 studies, over 20 percent of the randomized, controlled
12 trials that we publish are negative studies. Those are
13 of conventional medicine. We think that negative studies
14 are more important than people realize, both with respect
15 to CAM and with respect to conventional medicine.

16 DR. GORDON: Joe.

17 DR. FINS: Dr. Fontanarosa uses the phrase "a
18 reputable journal," and as a conventional practitioner,
19 when I see something in the Annals or JAMA or the New
20 England Journal, I feel much more comfortable in feeling
21 that it is true, at least by the standards that I have
22 lived and practiced by.

1 Dr. Relman, this question is directed to you,
2 but to any of the editors, I know there is a consortium
3 of medical editors that have a working group that have
4 published standards.

5 Is there any outreach to the CAM journals, or
6 at these other medical journals? What are the criteria,
7 and how do we know what is a reputable journal? Because
8 I think that is really the threshold thing.

9 Yesterday or the day before, we were talking
10 about reimbursement for benefits if things were in a
11 peer-reviewed journal, but the question is, what is a
12 peer-reviewed journal; what is a reputable journal.

13 How do we establish what the threshold is, and
14 does that organization, that entity of journal editors,
15 have a role in establishing what the cut-off might be?

16 DR. RELMAN: Although I was one of the founders
17 of the Vancouver Group, more years ago than I can quite
18 remember, and as of the time I stepped down 10 years ago,
19 there was no attempt to define what was a good journal or
20 what was a bad journal. The membership in that group was
21 fairly arbitrary, and it didn't have much to do with
22 quality. It had to do with other relevant editorial

1 things.

2 So I would ask my colleagues who are now active
3 members of the Vancouver Group whether there is any
4 attempt to define quality, but I would also say that I
5 would be very dubious about any such attempt. It has got
6 to be very arbitrary. At the very least, you have to say
7 it ought to be peer-reviewed if it is going to publish
8 original research.

9 If it says, no, that is not what we are about;
10 we are going to publish commentary, then you don't need,
11 necessarily, peer review, but if you are going to publish
12 original research, it has to be peer-reviewed. So that
13 would be my only observation.

14 DR. LAINE: I have more recent experience than
15 Dr. Relman's with the Vancouver Group, because it met
16 Thursday and Friday of last week in Philadelphia. So I
17 spent two days with the Vancouver Group. That isn't its
18 role. It is a volunteer group of editors from medical
19 journals who came together to create a document called
20 the Uniform Requirements for Manuscripts Submitted to
21 Biomedical Journals to create some standard guidelines
22 that journals can, or choose not to, buy into.

1 I think, from speaking with people who have
2 been on the Vancouver Group since it started, it sounds
3 like originally it was more focused on the format of the
4 references, and the nuts and bolts of putting together a
5 manuscript.

6 In its current inclination, in the revision of
7 that document that is in progress, a lot of concern with
8 ethical issues that relate to publication in biomedical
9 journals, but not to give editors some place to refer to
10 when they are trying to sort out difficult issues related
11 to conflicts of interest on the parts of authors,
12 reviewers, and the like, but not in any way setting
13 criteria for what is a good journal and what is a bad
14 journal.

15 DR. FINS: It is not unrelated because the
16 other issue is the firewall issue, and advertisements and
17 supplements in some of the CAM journals.

18 DR. LAINE: Right.

19 DR. FINS: So there may be a role for the
20 Vancouver Group. For CAM journals, if they were to
21 accept membership in this consortium, it might lift the
22 standards of the ethical issues, the homogeneity of

1 references, and there may be some cross-over effect.

2 It is just an issue that might be worth --

3 DR. LAINE: Right. That is an interesting
4 point, because one of the things in this document are
5 recommendations about advertising and where it should
6 sit, and where it shouldn't sit, and what types of
7 products are appropriate according to this volunteer
8 group of editors to be in biomedical journals. That is
9 an interesting point.

10 MS. WOOTTON: If I could just make the point
11 that the blue journal, the Journal of Alternative and
12 Complementary Medicine, does not accept advertisements at
13 all. This was a conscious policy right at the very
14 beginning at its inception because it is such a tricky
15 area for advertisements. So we are clean.

16 DR. RELMAN: Let me interject. I think that is
17 just great. If I had had my way when I first became
18 editor of the New England Journal, I would have said to
19 the owners of the journal, live on our modest profits
20 from subscriptions and classified ads. We were probably
21 the only journal that could have made a profit from just
22 subscriptions and classified ads, but fortunately, not

1 yours.

2 MS. WOOTTON: Absolutely.

3 DR. RELMAN: Most journals are now caught in
4 the economic vice of advertising income and conflicts of
5 interest. This is not irrelevant to your concerns.
6 Conflicts of interest between those who profit from the
7 sale of alternative therapies and alternative devices,
8 and so on, and those who set policies, set government
9 policies, and constitute advisory groups, are rampant,
10 and you ought to be worried about that.

11 DR. GORDON: Dr. Campion, please.

12 DR. CAMPION: I would just add in response to
13 your question about journal quality, there is no stamp,
14 and there should be none. Journals can change over time,
15 but journals have to be judged on the process, on what
16 they publish, and on their place in the scholarly
17 community, how readers, the critical audience responds to
18 them.

19 One indicator of that is the impact factor, how
20 often do other researchers and scholars quote articles
21 from any particular journal. That is just one rough
22 indicator.

1 DR. GORDON: David.

2 DR. RILEY: We send all authors the Uniform
3 Requirements for Manuscript Submissions and the Consort
4 Guidelines in terms of publications. Now, of course,
5 they don't always follow it, and lots of times, that is
6 probably the primary reason for rejection of original
7 research articles.

8 DR. GORDON: Effie.

9 DR. CHOW: Thank you very much for your input.
10 I have got many questions, like Wayne usually has, but I
11 will restrict them to one or two.

12 DR. GORDON: If you have too many questions, we
13 won't have much lunch.

14 DR. CHOW: Regarding Dr. Campion's remark that
15 it may be more accepted than we believe it is, coming
16 from an era in 1970—something when acupuncturists were
17 jailed, and homeopaths were jailed, some of the leaders
18 were jailed, and Christopher Hill from holistic health
19 was jailed, and we were helping to get them out of jail.

20 I would say it is more accepted now, but it is
21 acceptance on the public level. Now it seems like we
22 have the challenge of influencing or educating the top

1 level echelon of scientists and policymakers and so
2 forth. In your reviews of the papers -- 9,000 reviewers,
3 that is really a lot -- you talk about physicians being
4 the managers of CAM processes and so forth.

5 How much education do you think is enough to
6 educate the physicians and the health professionals who
7 know, really, basically, nothing about energetics or any
8 of the practices?

9 That is our educational question, too. This
10 goes into research. So I am curious, and I think we
11 would like to be enlightened as to, how much education do
12 you think will make a physician and a nurse, a physical
13 therapist, et cetera, qualified to judge the value of a
14 particular practice.

15 DR. RELMAN: May I respond to that? Education
16 has to follow, not precede, the evidence. You will not
17 influence what the leaders of American medical education
18 teach and what they believe without presenting, without
19 having available persuasive scientific evidence.

20 That is why it is so important to support
21 research, to publish good research, to teach those who
22 believe in the value of alternative medicine how to do

1 good research. That is the only way. There is no other
2 way that you are going to influence the real leaders of
3 American medicine, and there is no other way that you
4 should want to do it.

5 DR. GORDON: Dr. Campion, did you want to
6 respond?

7 DR. CHOW: We do believe in research. I just
8 wanted to say that. That is a big issue here.

9 DR. CAMPION: I believe that education of
10 physicians should mainly focus on trying to be better
11 physicians. There is plenty for physicians to learn
12 already, and there is this huge, poorly defined area of a
13 million different types of CAM, which everybody knows,
14 there is not a lot of objective data there.

15 Hence, I don't see need for trying to inject
16 the medical curricula with quasi data, or some pretense
17 of data when there isn't any. I think physicians need to
18 be aware of what their patients want, where their
19 patients go, what other practices are involved,
20 particularly when they come in direct competition.

21 DR. GORDON: Phil.

22 DR. FONTANAROSA: I would like to respond

1 briefly, if I may. Your question about how much
2 education is enough is a very difficult question. Being
3 involved with teaching two courses to the first-year
4 medical students at Northwestern, I can tell you that
5 time in the curriculum is rare for adding on any
6 additional materials.

7 In fact, if you add something, something else
8 has to get bumped out. There are so many hours and so
9 many ways that you can do it. So I would agree with Dr.
10 Relman, that decisions to add things to the curriculum
11 must be based on existing evidence and a good reason for
12 those being introduced, and bumping out something else.

13 From the standpoint of how much education for
14 physicians in practice, a lot of that is self-directed,
15 of course, by continuing medical education. I do think
16 that physicians need to be aware of the various CAM
17 therapies, their limitations, their applications, not
18 that they are going to practice them.

19 I think it would be just as much a mistake for
20 a physician who is not trained in acupuncture to perform
21 it as someone not trained in orthopedic procedures to set
22 a broken wrist -- there needs to be that expertise -- but

1 to be aware of the current information available on these
2 therapies is important so that when patients ask their
3 physicians these questions, they won't just dismiss the
4 question because of their lack of knowledge, and they
5 will be able, more importantly, to see how the CAM
6 therapies might interplay with the conventional
7 therapies, drug/drug interactions and so on.

8 DR. GORDON: Wayne.

9 DR. JONAS: Thank you for some very, very
10 wonderful comments by everyone. That was a good
11 discussion and panel. I hope I can formulate this. I
12 will put my question first. How about that?

13 Do you think anything needs to be done in this
14 area that, we as a federal body trying to look at federal
15 regulations, need to do?

16 I don't personally see anything that needs to
17 be in this particular area. It looks like the process is
18 going on like it ought to go on, both with the biases and
19 the lack of evidence. I think anyone who reads the
20 historical literature and the sociology of science sees
21 that journal publications is the world in which biases
22 are fought out.

1 We get data and we have editors and reviewers
2 that are biased, and then there is, hopefully, an open
3 and full discussion, and eventually some of the good
4 stuff forms to the top. There are multiple examples of
5 this. Parapsychology is fraught with them, chiropractic
6 has documented this recently, Ernst has documented both
7 sides of this problem in publishing, the marked
8 publication bias in favor of positive studies in the
9 complementary medicine journals, very marked.

10 The reverse of that, the reviewer bias against
11 some complementary therapies among the conventional
12 reviewers. So I think this exists, and Davidoff [ph],
13 actually, at a previous conference, said this directly.
14 The question is, is there anything to do about this,
15 because the bottom line is, there isn't very much good
16 research.

17 So if the goal for all the journals is to get
18 high-quality, rigorous research -- and let that be the
19 arbitrator of this -- if that doesn't exist, is there
20 anything that we have in relation to this, other than
21 what we have already discussed, which is, let's try to
22 get better and more research infrastructure going, and

1 actually outcomes, so that we have a better selection
2 among all journals to pick from?

3 I am wondering if any of you have an opinion
4 about that. Is there anything that should be done about
5 these issues, from the publication point of view,
6 anything that we should be doing?

7 DR. GORDON: Please, respond.

8 MS. WOOTTON: Can I respond to that one? I
9 think I would go back to the idea of innovative
10 methodology. This is what the CAM journals can do best,
11 is to nurture new methodologies that are rigorous but
12 bring in new ideas, new approaches

13 To go back to my recommendations, I think
14 probably the middle one, that there needs to be more
15 research money for practitioner training schools because
16 they are the ones with the knowledge and the insights
17 that can bring forward these appropriate methodologies.

18 At the moment, there is a dearth of training
19 there. I think Richard Hammerschlag addressed this one
20 extremely well. That would be my recommendation.

21 DR. RELMAN: Dr. Jonas, I am on your side. I
22 preach the same sermon that you are preaching. We need

1 more good evidence. In the fullness of time, with good
2 evidence and full publication, the reliable will be
3 sorted out from the unreliable; the true from the false.

4 I would take exception to my colleague, Jackie
5 Wootton's, suggestion that we practitioners ought to be
6 taught how to do research. That is a special skill. It
7 requires a different kind of discipline, and neither in
8 so-called conventional medical research, nor in
9 alternative medicine research, I think, can you expect
10 that the average practitioner is going to play an
11 important role.

12 They can be part of a team, but the team has to
13 be directed and disciplined by people who are
14 professional investigators and who understand the
15 discipline of clinical research.

16 MS. WOOTTON: Could I just come back, quickly,
17 to correct any misapprehension. I am not saying that
18 practitioners should be taught research methodologies. I
19 am saying that practitioner training schools should be
20 given encouragement to develop new, innovative
21 methodologies, because I think this is where the
22 innovation will come, not by channeling and focusing down

1 the same route that the conventional biomedical research
2 is going in at the moment, whilst at the same time,
3 sustaining the rigor and the basic principles of
4 scientific methodology.

5 DR. GORDON: Thank you.

6 Other responses to this question? Dr.
7 Fontanarosa?

8 DR. FONTANAROSA: Dr. Jonas knows this all too
9 well, from his previous experiences at OAM. I think that
10 the two places that there might be a way to improve this
11 is being sure that the grant review process is such that
12 there is prioritization of important, answerable research
13 questions. So clear prioritization of grant funding.

14 The other seems, probably, easier said than
15 done. There are, I can't remember how many, national
16 independent centers for CAM research around the country,
17 each sort of focused on its own area of expertise, and I
18 wonder if some better collaboration among these centers
19 might help to answer questions more efficiently.

20 DR. GORDON: I wanted to ask you all, too, to
21 follow up on Wayne's question, whether there might not be
22 a place for the editors of some of the journals to give

1 seminars to help some of the investigators develop more
2 appropriate tools for presenting research and papers, a
3 kind of outreach, perhaps, at some of the conferences or
4 some kind of independent meeting.

5 Would that make sense?

6 DR. RILEY: I think if people focus on the
7 Uniform Requirements for Manuscript Submission and the
8 Consort Guidelines. The Consort Group meets regularly.
9 There are other guidelines being proposed now, the Moose
10 Guidelines for Outcomes Research.

11 The information is out there, but it probably
12 needs to be provided more to CAM investigators, or CAM
13 authors when they are writing up data for submission.

14 DR. GORDON: I was thinking of something more
15 interactive, actually, a kind of encouragement and a kind
16 of working with on developing papers of higher quality.

17 DR. LAINE: I think developing the paper might
18 be too late a step, because once the data are collected,
19 the data are the data. If the paper has good data and is
20 addressing an important question, as an editor, you can
21 fix up the presentation. That is a big part of our job,
22 but you can't fix fundamental study design.

1 So I think there may be a role for the sort of
2 activity you are talking about, but it has to be earlier
3 in the process.

4 DR. RELMAN: Dr. Phillips, in describing the
5 program at Harvard, was telling you that one of the
6 things they try to do is train people interested in
7 alternative medicine to learn how to design good studies
8 to find out whether what they are doing works or not.
9 That should be part of the education of people who want
10 to make a contribution to the field.

11 DR. GORDON: Thank you.

12 Tieraona.

13 DR. LOW DOG: It is quick, because everybody is
14 hungry.

15 DR. LOW DOG: Thanks for all of your comments.
16 My question relates to the database and self-described
17 experts, or what they self-describe their expertise in.

18 There has been wonderful articles in all of
19 these journals, but some mistakes continue to be
20 repeated, especially in the area of botanicals, which I
21 think physicians are interested in because of potential
22 herb/drug interactions, and because they are

1 pharmacologically active substances.

2 So we get articles that are published that have
3 the wrong species identified. So we say Siberian ginseng
4 is actually Panix ginseng, which is a completely
5 different genus, or we have an herb/drug interaction
6 article published that talks about hepatotoxicity of
7 echinecea, but having some mistakes around the
8 biochemistry.

9 So I think that those are errors we wouldn't
10 have in conventional medicine because we are more
11 familiar with the pharmacology. Have you thought about
12 getting botanists, or trying to expand the database a
13 little bit more, so that they have specialized areas,
14 just to make sure that those errors don't occur?

15 DR. LAINE: Yes. That is something that we
16 constantly do when we go to our reviewer base. We don't
17 have any process or the resources to go check into
18 people's credentials. Once they have done a review for
19 us, each reviewer is graded, and that information is
20 included in our database. Somebody whose done a lousy
21 review for us is unlikely to be chosen to do another
22 review, but we have to rely on what people tell us their

1 area of interest and expertise is.

2 We do go out and try to find reviewers in CAM
3 therapies, and in other areas, too, where there seems to
4 be a paucity of expertise among our reviewer database,
5 but mistakes will always get by. I think it is probably
6 just as common in conventional medicine, although in
7 areas where there are lots of reviewers with that
8 background and expertise, it is probably less likely.

9 Particularly, in alternative therapy, it
10 sometimes seems like we are hitting on the same reviewers
11 over and over again, and then the potential is there for
12 their biases to creep into the reviews, which is another
13 problem, different, but maybe just as great as inaccurate
14 information.

15 DR. FONTANAROSA: I would agree with Dr. Laine
16 for the most part, and I would add one thing, that in
17 addition to appropriate reviewers for papers, and this is
18 true of any paper, if there a new mutational analysis for
19 a genetic predisposition, you try to get someone familiar
20 with that methodology, the same thing.

21 I would also add that editors have a
22 responsibility in reviewing papers, not solely to rely on

1 the reviewers comments, but to do independent work on his
2 or her own, to pool research articles, to try to verify,
3 independently, names of drugs through various textbooks
4 or other resources to find that out.

5 Once something is published, it is really out
6 there. There is no pulling it back easily. So to try to
7 be sure that these T's are crossed, I's are dotted, the
8 right drug is named -- or, the right herb is named,
9 excuse me -- is very important, and I think it is also
10 the editor's responsibility, in addition to the
11 reviewer's information.

12 DR. GORDON: Thank you. Thank you all very
13 much. This has been a wonderful panel, and we have
14 really enjoyed the discussion and look forward to
15 continuing to work with you all.

16 We are going to take a break now for lunch. We
17 will come back at 1:45 for small group meetings. Small
18 groups will meet until 2:45, and then at 2:50 we will
19 come back here for the large group.

20 [Lunch recess taken at 12:50 p.m.]

21 + + +

22

A F T E R N O O N S E S S I O N

[2:55 p.m.]

DR. GORDON: Which group is going to present first? Tieraona.

Group IIIA: CAM Research and Publication

DR. LOW DOG: My panel, we had Tom, and we had Joe, and we had Julia, we had Conchita, we had George.

So our first question was, evaluating the research literature. So we tried to look at barriers and obstacles that were involved, and we divided it up into two groups, one was evaluation of research literature by practitioners; how could they use it to change their practice habits, and then we also divided it up into reviewers, people that were actually reviewing the literature.

For the practitioners, we feel that everybody would benefit, conventional medical doctors, massage therapists, acupuncturists, chiropractors, if all practitioners had training in school, or through continuing education from people who are already graduated, in how to critically evaluate published research.

1 That would include conventional practitioners
2 having some familiarity with unique aspects of evaluation
3 of CAM. It would also allow CAM practitioners to have a
4 better handle on how to critically evaluate the research
5 that they read in other journals. So we had that.

6 Also, for practitioners, sort of in that area,
7 we wanted to encourage the continued development and
8 support for training CAM professionals who can teach
9 research methodology and evaluation, because part of the
10 problem is, who is going to teach in these schools. If
11 we are saying we want the chiropractors or the
12 naturopaths or the acupuncturists to be able to evaluate
13 the research, we have to have people that are capable of
14 teaching them in their schools.

15 To that end, we encouraged collaboration
16 between the conventional academic institutions and the
17 CAM schools. So there is a wealth of people who are
18 well-trained in research methodology at universities to
19 be able to help teach in these schools.

20 Also, we wanted to encourage funds that could
21 help support and sustain library types of materials. A
22 lot of times, large academic institutions have endowments

1 and funds that are not available to CAM schools, and that
2 there should be some sort of funding available or set
3 aside so that they could have access to journals,
4 MEDLINE, computers, et cetera.

5 DR. GORDON: Question. In this first one of
6 training people to evaluate research, did you have any
7 particular pathway by which you thought that could be
8 done?

9 DR. LOW DOG: Well, part of it is already being
10 done through NCCAM, who is helping to teach CAM
11 practitioners research methodology, but we also feel that
12 part of this is going to have to be done in the short
13 term through collaboration with universities and academic
14 centers where you will have Western-trained people,
15 basically, going to CAM schools to teach research
16 methodology.

17 The ideal, actually, would be to have people
18 that are specialists in their own modality go through and
19 learn research evaluation. We are hoping that they could
20 use that through NCCAM, such as what we heard today,
21 through NCCAM means.

22 I hope I answered your question.

1 DR. GORDON: Sort of like NCCAM having a
2 training program.

3 DR. LOW DOG: With the sole purpose not to
4 train researchers, but to train people who teach
5 practitioners how to evaluate research. So a little bit
6 different there.

7 Then again, we wanted to make sure that we
8 earmarked funds to accomplish, making sure that
9 practitioners could have access to this.

10 Then we separated evaluating research
11 literature, looking at barriers and obstacles, into
12 reviewers, people that just review the evaluation of this
13 literature separate from publication. We have carved out
14 this niche.

15 We just, again, wanted to encourage that there
16 be at least somebody who is reviewing it on the team that
17 has familiarity with that CAM-specific modality, so that
18 they would know if that was even appropriate; was it
19 appropriate to test this herb for that purpose so that
20 there is somebody specific.

21 DR. GORDON: I'm sort of lost. What is the
22 context in which you are talking?

1 DR. LOW DOG: When you are evaluating research
2 literature, like for doing a systematic review, when you
3 are doing a meta-analysis, when you are gathering data,
4 that those types of reviewers need to also have some sort
5 of expertise, or have some sort of collaboration with
6 somebody who knows about CAM.

7 We didn't have much on there. We just sort of
8 thought that came before the published issues. That is
9 all we had for evaluation of research literature.

10 Was there anything I forgot, guys? No?

11 So the next question was, publication of
12 research results. Again, here, we tried to look at ways
13 that we could promote and improve the availability of
14 research being published in peer-reviewed journals.

15 One of the things that we really did want to
16 encourage, because you can't mandate, but we just wanted
17 to recommend that peer-reviewed journals involve at least
18 one person on the review team when they send an article
19 out for review that was specifically familiar, or had
20 expertise in that CAM modality. They don't have to be
21 experts in the research methodology. They have other
22 people for that, but just the appropriateness of the way

1 the study was done involving that modality.

2 Part of what we tried to consider about
3 publication was, one, we don't want complementary and
4 alternative medicine to be seen as second class. We
5 would like us to try to get more of the articles into
6 peer-reviewed journals, but we thought, perhaps, since we
7 do believe there is some bias at this point, which may be
8 just because we haven't got to the place where we have
9 good enough studies, that maybe NCCAM could do something
10 like, either consider a quarterly journal, less
11 frequently; more frequently, or do what we call a "year's
12 best," where they take the best studies that have been
13 done in CAM for that year, or six months, or however
14 frequently it is done, and publish that and make that
15 available, similar to what ODS does now, so that you know
16 what the 25 bests were for the year.

17 We thought that that might be a way of making
18 people more aware of the research that has been done
19 because maybe they didn't get into the New England
20 Journal or JAMA.

21 We also just bandied around other ways of
22 getting that information out there, and wanting to

1 encourage NCI, CDC, Office of Dietary Supplements, HCFA,
2 people who are already taking trials and summarizing or
3 putting them on their sites. We would like them just to
4 consider the inclusion of CAM trials that were well done,
5 and putting them in their sites, because sometimes we
6 think there is just an exclusion of them for no real
7 reason, maybe just a reminding that good trials should be
8 included there, too.

9 Anything on publication stuff that we had, that
10 we bandied around?

11 This took a lot of time. We had a lot of work
12 on those issues, about where things should be published
13 and who should pay for what.

14 Questions 3 and 4, we sort of put together.
15 This was looking at issues around non-profit support,
16 people that are not for profit, and private sector
17 support.

18 Based on some of the previous testimony that
19 had been given to us, we came up with a couple of ideas
20 that we liked. One was that there is a lot of private
21 foundation money and not-for-profit money out there, but
22 nobody knows about them. So, how would a CAM researcher

1 even know they existed?

2 We thought that NCCAM might be able to just
3 have a site under their researcher site, where they just
4 actually list contact names for foundations, so that if
5 you are an acupuncture wanting to do a trial, there is a
6 place that you could go to that you could get information
7 of other foundation that might be willing to sponsor it,
8 and that they could maintain that as sort of a liaison.

9 We weren't sure who it would be, this
10 ambiguous, appropriate government body, but we wanted to
11 have an appropriate group to serve as a coordinator for a
12 group of public, private, and governmental agencies who
13 convene to discuss how to better coordinate CAM research.
14 We think there is a lot of duplication. We think there
15 is a lot of discoordination, that there is precious
16 little money, and the money is sometimes not being used
17 in a very coordinated fashion..

18 So if there was a group that could come
19 together that could help coordinate the public money, the
20 private money, the government money, the foundation
21 money, we might be able to get more work done in a better
22 and more quick fashion than in this disjointed fashion it

1 is now. We didn't know if that was NCCAM or who, so we
2 just left it open.

3 Finally, for foundations and not-for-profit, we
4 wanted to recommend that we try to get a group of them to
5 pool monies together, so that they put a CAM pot
6 together, if you will.

7 Some of them, we heard, they are only willing
8 to put so many dollars in; so that we get them to
9 contribute a group of dollars, and then they could
10 announce a competition, and then could take applications
11 in and get the best few that could compete for these CAM
12 research dollars. We might be able to get some bigger
13 studies funded, instead of \$10,000 here and \$42,000
14 there. If we could get some of them to come together and
15 pool their research money.

16 We didn't address Question 5.

17 DR. GORDON: Either additions from Tieraona's
18 group, other points that anyone in the group wants to
19 make, or questions for her about this? Wayne, go ahead.

20 DR. JONAS: What was Question 5?

21 DR. LOW DOG: It was CAM research and
22 regulatory process.

1 DR. GORDON: Other questions for Tieraona?
2 Because I have one, and I don't know whether this fell
3 into Wayne's group or yours, or somewhere in between.

4 Oh, you wanted to ask a question?

5 DR. JONAS: Yes. I just wanted to make a
6 comment and add something that has worked in the past and
7 could work in the future, and that is OMAR. They are the
8 ones that do consensus conferences. When we were
9 originally looking at the whole list, gee, what ought we
10 do through OMAR.

11 A lot came up. We did the mind-body stuff, we
12 did the acupuncture area, but there were a whole bunch of
13 herbal products in which the question was, gee, is there
14 enough research to currently recommend under what
15 conditions that these are safe and effective.

16 It is exactly in those controversial areas that
17 consensus conferences are held, to have the debate and
18 the discussion, and also bring out the current evidence.
19 So they, I think, would be an area of focus in terms of
20 some of the areas.

21 DR. GORDON: I want to ask Tieraona, both you
22 and Wayne, the question, yesterday when AHRQ and Brian

1 were talking about different ways of producing
2 information. Was it your task to figure out how all that
3 should go together? Was it your group rather than yours?
4 It was not, okay.

5 DR. LOW DOG: I am sure it was Wayne's. I know
6 it was Wayne's.

7 DR. GORDON: I don't think we can necessarily
8 do it here, but I would like to hear some more thoughts,
9 like the consensus conferences, which I think is really
10 important, about an overall strategy, because I think
11 what we want to do is make some recommendations, should
12 we go in some of the direction of outsourcing, in a
13 sense, to private groups, like the Cochrane
14 Collaboration. The production of information, should it
15 go to AHRQ, should it be NLM, or NCCAM. I would like to
16 hear a little discussion here about that.

17 DR. JONAS: There is a real debate within NIH
18 as to whether they should do that. They have done it in
19 the past, and there is a real debate as to whether they
20 should continue to do it.

21 For example, they contract with groups to do
22 special databases to produce research on health services

1 research and cancer, and a variety of other things,
2 toxicology.

3 Some of the areas they are not particularly
4 happy with having to do that, but on the other hand, they
5 do it a lot. One of the things that might be useful
6 would be to actually contract with a group that does an
7 ongoing summary of current information, past information.
8 I think that would be a very useful thing, and it
9 wouldn't be very expensive. We actually looked at the
10 cost of that, and it is not very expensive.

11 DR. GORDON: Yes. I would like to hear other
12 people's thoughts about that, because I think this is a
13 really important issue. I think this may be one of the
14 ones we want to address in the Interim Report. It may be
15 complex, but it is reasonably straightforward at the same
16 time.

17 DR. JONAS: One of the issues is that, often,
18 people will look at those sites and say, that is the
19 authoritative site, and therefore the individuals that
20 want to market a supplement, if it is listed on that
21 site, then they will say, okay, now we have an
22 authoritative body that has said this is worthwhile, we

1 can market it, and they will use that through the courts
2 and things like that. So there are complications to
3 doing that.

4 Again, the government is nervous, rightfully
5 so, lest they be interpreted as recommendations in some
6 way.

7 DR. GORDON: But AHRQ does that, in a sense.

8 DR. JONAS: AHRQ no longer does that, actually.

9 DR. GORDON: But they do these, what are they
10 called, evidence reports.

11 DR. JONAS: Yes. They do do those, exactly.
12 The Cochrane work does do that. So they do do that, and
13 they have a whole process for making sure that you don't
14 take this as a recommendation, that they are available
15 for groups that want to then make guidelines out of
16 those, if they feel that they warrant them. But it is
17 possible to do that. That becomes very expensive,
18 however.

19 DR. GORDON: If AHRQ does it.

20 DR. JONAS: Yes, because if they are doing
21 those evidence reports, they are much more elaborate than
22 simply summaries of current reviews, just with a

1 database, or even systematic reviews, than what Cochrane
2 is doing.

3 DR. GORDON: Tom, and Joe.

4 MR. CHAPPELL: I just wanted to maintain a
5 principle in the choice, the ultimate choice here, that
6 CAM research has access to practitioners and to the
7 public.

8 DR. GORDON: Exactly.

9 MR. CHAPPELL: So that the more public the
10 domain, the entity that is doing the evaluation and the
11 publication, the better.

12 Now, if the public entity decides to privatize
13 but still maintains control, that would be fine, too. I
14 just feel that we need a public entity assessing the
15 evaluation of these trials and taking responsibility for
16 publication to various channels of groups.

17 DR. GORDON: Great.

18 Joe.

19 DR. FINS: I very much want to endorse the
20 "year's best" concept that you folks came up with. I
21 think that is really a way of bridging the gap between
22 the alternative medicine journals and the New England

1 Journal level, and it gives it a kind of validity, and I
2 think that would be very helpful.

3 The other thing, the practice guidelines, or
4 recommendations for reaching out with the clinicians out
5 there, is through the specialties societies, through the
6 American College of whatever. They often have board
7 review, documents, or annual updates. If there could be
8 some kind of linkage with what NCCAM, or whomever is
9 going to do that, with those entities in reaching out so
10 it gets distributed widely, that would also be very
11 helpful.

12 DR. GORDON: Okay, great.

13 Other thoughts?

14 Tieraona, go ahead, and then George.

15 DR. LOW DOG: In the AHRQ, they have the really
16 big, thick technology report, and then they have that
17 brief summary, but it is still not consumer-friendly. It
18 would be nice if somehow there would be some funding.
19 That information is public and it is from the government,
20 and it would be nice if there was a lay version of that
21 for the consumer that was just one page, or on a website
22 that would be available as well.

1 DR. GORDON: I think it is up to us to fashion
2 exactly the kind of information we want to have out there
3 about the research. So these points are going to help us
4 make that recommendation.

5 George.

6 DR. BERNIER: We had tremendous exposure today,
7 I think, to the leadership of medical journalism. I
8 would like to point out, and this sort of came up in our
9 conference today, that very people publish what they are
10 interested in in the New England Journal of Medicine. It
11 is really hard to get into, and you say, if I get one of
12 those every 10 years, I have got it made.

13 So it is not a bad sign to take something less
14 than the Annals and the New England Journal, but I think
15 we have been believing it is.

16 DR. GORDON: You mean it is not eternal
17 damnation if you are not published there.

18 [Laughter.]

19 DR. BERNIER: That's right.

20 DR. GORDON: Okay, thank you.

21 Other comments? Joe.

22 DR. PIZZORNO: I appreciate that comment,

1 George, and it gets back to the question I asked Brian,
2 and that is, where is the bar. One of the concerns I
3 have is that, if you look at the New England Journal, et
4 cetera, a very high bar. If you look at the Cochrane
5 Collaboration, a very high bar. If you look at the AHRQ,
6 a very, very high bar.

7 My concern is that, while at some point we want
8 to reach that bar, there is some standard of evidence
9 that is appropriate for us to utilize when treating our
10 patients, and I don't think we know where that bar is.
11 If we could, in our wisdom, come up with some
12 recommendations, or at least a process, for determining
13 that, I think we could do a lot of good.

14 DR. JONAS: May I just comment on that?

15 DR. GORDON: Yes, please. Go ahead.

16 DR. JONAS: One of the things, again, we just
17 mentioned, is the possibility of a specialized database
18 contracted out which reports on current research. It
19 simply reports on research. NLM does this a lot. They
20 are not in the role of evaluating it, they simply report
21 it, and report it accurately.

22 DR. GORDON: In a sense, what you are saying

1 is, you report on it, and you report to height of the bar
2 as you are reporting on it, you say how good the research
3 is.

4 DR. JONAS: No. They don't even report the
5 height of the bar. All they do is just describe it in a
6 clear, precise way. They do summaries of it, and they
7 produce it and put it in one place where if someone wants
8 to get that research, they can go there. It is ongoing,
9 so it is real-time with the current research.

10 DR. GORDON: Joe, go ahead.

11 DR. PIZZORNO: Something that we have done, and
12 a project that we are working on, is, we actually
13 developed, by looking at what the Cochrane Group did, a
14 ranking system for the quality of the research.

15 I am wondering, maybe if we had some kind of
16 central repository which looked at the research that was
17 out there, and basically each study was ranked, just how
18 good is that study, how reliable is that study, that way,
19 we could at least get a sense for where the body of
20 research is shifting or establishing itself.

21 DR. GORDON: I think what we have been hearing
22 is that people need some estimate of the quality of the

1 research. The researchers need it to some degree, but
2 certainly the public does need that.

3 DR. JONAS: The way most conventional journals
4 do this, like Annals has JPC Journal Club in which they
5 report abstracts of ongoing research. Most of the time,
6 they have commentaries, because having a score, tagging a
7 score, is very unreliable, and there is no standard score
8 that everybody accepts. There are fatal flaws of even
9 high-quality studies, and good studies that are low
10 quality, and so they have a description of that. Then
11 that gets into a little more complicated --

12 DR. GORDON: Joe.

13 DR. FINS: There is a lesson from the death-
14 and-dying movement, which had a textbook project that
15 Steve McPhee [ph] from UCSF headed up. It looked at the
16 death-and-dying care content of the leading textbooks.
17 It has also been done for nursing as well.

18 Maybe we can reach out to the kinds of places
19 where conventional practitioners go for authoritative
20 information and try to get some infiltration of the kind
21 of basic themes that we talked about in the December
22 meeting, about what the conventional doc needs to know.

1 I think if it is there, it gives a tremendous
2 legitimacy. Of course, it would be a conservative part
3 of the entire spectrum of CAM, but it would be an initial
4 foothold.

5 DR. GORDON: Tom.

6 MR. CHAPPELL: Dr. Heirich, in his first
7 proposal, says, "Congress should instruct public
8 agencies, that is NIH and AHRQ, to gather data, both on
9 clinical effectiveness of various CAM approaches and on
10 the relative costs of more conventional allopathic, and
11 of CAM treatments for the same condition.

12 "This information, supplemented by other
13 information found in peer-reviewed journals, should be
14 brought together and made available in an easily
15 accessible website, which is updated constantly as new
16 data becomes available.

17 "The public agency responsible for the website
18 should be instructed to draw this information to the
19 attention of insurance companies, managed care
20 organizations, HCFA, and the continuing medical
21 educational programs and schools on an ongoing basis."

22 So I just refer you to that as more specific.

1 DR. GORDON: Right. We are looking at several
2 different kinds of data. We are looking at research
3 data, we are looking at practice data, we are looking at
4 cost data. It sounds like many people would like that
5 information made available.

6 Wayne.

7 DR. JONAS: There are plenty of examples of how
8 this is done; HIV-AIDS clearinghouses.

9 Steve, you put together a Rare Diseases
10 Clearinghouse, the Health Services Research Database.
11 There are many examples that could probably very easily
12 be modified.

13 DR. GORDON: Thank you, Wayne, for that.

14 Maybe one of the things on this issue, in
15 particular, is that staff could put together some
16 possible, specific recommendations for ways to fulfill
17 this general mandate to produce information for the
18 public and researchers. Then we can pull that together
19 and take a look at it, and come up with recommendations
20 based on that data, and make that data available for
21 everybody. Then we can talk more about it.

22 It sounds like we are all pretty much in the

1 same ballpark, feeling the importance of this, the
2 importance of some kind of discussion, if not necessarily
3 a numerical evaluation, the importance of not only making
4 it available to researchers, but making it easily
5 available to the public.

6 Joe.

7 DR. FINS: One other thing. I don't know if
8 there are any editors from the CAM journals here, but if
9 there could be sections in the journals specifically
10 addressing methodology and the design of studies in the
11 literature tutorial, deconstructing good studies,
12 explaining what were the elements, as a way of doing a
13 kind of continuing educational effort, I think the
14 readership would probably benefit from that.

15 DR. GORDON: That is a separate item.

16 DR. FINS: A separate issue.

17 DR. GORDON: A separate item, but on the same
18 general topic of information about research. Thank you.

19 Any other issue related to these topics,
20 related to journals or philanthropy, that anyone would
21 like to bring up at this point? Yes, Tieraona.

22 DR. LOW DOG: Just the whole issue of the

1 public. We certainly didn't adequately address it, and I
2 am not sure it has been, really, adequately addressed
3 overall, is, how do you synthesize the research to the
4 public that is truthful. When you take a study and it
5 says something, what does it really mean, and
6 synthesizing it, because it has to be more than just this
7 study was done and it showed this, because they can't
8 interpret it.

9 So I do like the AHRQ, and trying to come up
10 with some body that can give truthful information about
11 the research in a lay sort of way. We really focused
12 more on practitioners, reviewers, and sites, and things
13 like that, but I think that that is one of the biggest
14 jobs that we have, is, how do we get the information to
15 the consumer.

16 DR. GORDON: I think, if the staff can bring up
17 some of those models to us, we will see the different
18 ways that it has been done. One of the things I think
19 that has been clear throughout is that there has not been
20 enough information for the public. It is not easily
21 available, and it is not answering most of the questions
22 that they have.

1 DR. LOW DOG: It is often tied to a product,
2 too, which makes it hard for them.

3 DR. GORDON: Right, exactly.

4 Anything else on this? Great.

5 Wayne, do you want to talk about your group?

6 **Group IIIB: CAM Research Methods, Training, and Concerns**

7 DR. JONAS: We were tasked with methods,
8 training, concerns, federal agencies, academic health
9 centers, and design. I made a mistake when I read these,
10 and I thought it was methods and framing. So I started
11 with that.

12 So we had some assumptions that we thought
13 should frame the whole research discussion that we have
14 heard a number of times. There is a close consensus
15 among some of these. They are fairly simple. Research
16 is important, we should be doing research; it is key, it
17 is important. The research has to be high-quality, it
18 has to be good, and it should include multiple methods.
19 There isn't, simply, a mono-method approach to
20 understanding complementary and alternative medicine, or
21 any medicine, for that matter. There has to be multiple
22 methods.

1 Now, given the fact that there are multiple
2 methods, we felt like, or, at least we outlined, six
3 major areas that we heard discussed both in the prior
4 research discussions that were in the summary your book,
5 as well as over the last few days where people wanted to
6 see emphasis on certain kinds of domains, if you will,
7 and other domains.

8 That included systematic reviews; consensus
9 conferences; meta-analyses; summaries of current
10 research; randomized, controlled trials; basic science
11 research. We heard that. We heard a lot of emphasis
12 then on health services research, especially looking at
13 costs.

14 Cost effectiveness was something that was
15 emphasized this time; outcomes research and observational
16 data; and then one that was only mentioned briefly, but I
17 put it in there because I thought it is very important
18 for public input, and that is qualitative research, to
19 really get at some of more subtle items that are
20 difficult to capture in complementary medicine, or
21 address issues that the public finds important that,
22 maybe, is not captured in some of these other methods.

1 So qualitative research is an important area, also. We
2 just wanted to frame that.

3 One of the things that we did not address is
4 the whole prioritization process, how do you decide how
5 much you put into health services research and what
6 areas, and should we all do randomized, controlled
7 trials, or how much basic science research and that type
8 of thing.

9 So this perhaps, then, is an item which is
10 addressing prioritization. Perhaps, one of the things
11 that needs to be done is to have a prioritization process
12 developed, if you will, that is explicit and clear, and
13 that includes all the major audiences that are involved
14 in complementary medicine to make sure the kind of data
15 that they need is produced in research.

16 So that was the framing idea, and actually,
17 this is the kind of thing that the Institute of Medicine
18 does. They have actually already written a number of
19 reports on this, including one we heard from in the first
20 conference, which said that the public should be
21 especially more involved in this prioritization process.

22 For complementary and alternative medicine, we

1 all felt that that was a very important area, because
2 this is a publicly-driven phenomena. So, how to do that
3 is a question.

4 In terms of other mechanisms, we thought it was
5 extremely important that research be done in multi-
6 disciplinary teams. That includes not only scientific
7 teams, experts in a variety of sciences in these areas,
8 but experts in the actual methods, the complementary and
9 alternative medicine practitioners who actually do this
10 and are trained in this, as well as public participation.

11 I think that most people have agreed that there
12 needs to be good research methodologists, experts in the
13 clinical area that is being examined, in the
14 complementary medicine area that needs to be examined,
15 but how to get the public really involved on the research
16 team is a key issue, and again, probably you need a
17 special item for complementary and alternative medicine.

18 We had a discussion of outcome measures,
19 selecting outcome measures as being important in
20 complementary and alternative medicine. Several of them
21 that were mentioned that appear to be important in this
22 area are: quality of life; patient satisfaction; adverse

1 effects; and then a category that we struggled a little
2 bit with coming up with the terminology, but special
3 outcomes specific to complementary and alternative
4 medicine, such as energy or qi, for example;
5 measurements, or the more subtle aspects that are
6 difficult to capture and may not have a Western
7 conception, even, and therefore not a Western outcome
8 measure; and then also, ways to capture unexpected or
9 serendipitous outcomes that occur from interventions that
10 are focused on healing. A lot of times, things that
11 happen are unexpected.

12 So again, that is where qualitative research
13 comes in, to try to capture things that you can't
14 anticipate, don't have a measurement item for.

15 We felt that one of the main focuses, in terms
16 of setting a research agenda that could go fairly quickly
17 into policy, is the area of safety, that we need to look
18 at safety specifically in the areas of supplements. We
19 have heard that over and over again, and there are
20 several ways that that might be done.

21 Again, many people say that DSHEA somehow needs
22 to be either fully implemented or modified, or discussion

1 of DSHEA in order to identify and allow it to get at the
2 safety issues that appear to be inadequate, currently.

3 We started to get into different ways to do
4 that, and then kind of retreated and said, no, we don't
5 want to get into modifying DSHEA; it is too complicated,
6 but we want to acknowledge that it is important to do and
7 that this should be done in some way.

8 Safety also includes the monitoring of adverse
9 effects, and also the quality of products. There are
10 particular ways in which that could be done, and we
11 should empower groups like the FDA, the CDC, the NIEHS,
12 USP and industry, to move into these areas to make sure
13 the quality is improved and that there is monitoring for
14 adverse effects interactions in that way.

15 I suggested but we didn't really discuss, but
16 we have heard it in the past conference, that the level
17 of evidence, or type of evidence, should, in some way, be
18 stratified by risk so that those that are higher risk
19 require more data, more evidence than those that are
20 lower risk.

21 This is done, actually, in the government. We
22 heard from the FDA Devices Division, in which they have

1 an explicit way of doing this. This should be looked at
2 in a broader way, because certainly some things that are
3 low-risk need different types of evidence than some
4 things that are high-risk.

5 Also, in safety issues that needs to be
6 addressed, is the indirect effects from incompetent
7 practitioners, although that is slightly different. That
8 is more in the training issue, and certification and
9 licensing, but it is an important component of safety.
10 So there should be research looking at safety, and that
11 should be a highlighted item.

12 There was a discussion of trying to get at
13 those things -- again, this was a little bit difficult,
14 and maybe, Joe, you can help me with this -- getting at
15 the meaning aspects, information about meaning,
16 culturally relevant information, including
17 anthropologists, social science involved in providing
18 information about complementary and alternative medicine
19 research as being very important.

20 National Endowment for the Humanities, I think,
21 was suggested as a place that, perhaps, this could be a
22 targeted. So that was a suggestion.

1 We then looked at stimulation of support in
2 research in federal agencies, academic health centers,
3 and foundations, which was not our charge, but we felt it
4 was very clear that we needed to encourage funds,
5 stimulate more federal involvement in research. That
6 could be done through multiple methods, RFAs, Special
7 Emphasis Panels, money.

8 What else did we say, perhaps opening up
9 coordinating offices, either in Health and Human
10 Services, initially. Then maybe in other agencies that
11 are not within Health and Human Services' purview,
12 perhaps this could be done in a stepwise manner, so you
13 do, first, one in HHS, and then subsequently, you open up
14 as those areas develop to try to specifically encourage
15 research in those areas, similar to what happened at the
16 NIH when the OAM was started and that began to gather a
17 lot of attention, and kind of develop those areas.

18 One very touchy area is that, first of all, I
19 put up there, "should be blank percent of future budget
20 increases should go to integrative medicine research." I
21 was hoping they would fill in the blank for me with a
22 number. They didn't do that, they said, well, there

1 ought to be more, but it should be a significant portion.

2 There are many ways to do that, but we don't
3 feel like we should specifically say how much that should
4 be. There are a variety of methods that could be done,
5 line items, appropriations in language, requiring
6 reporting on the amount invested every year in these
7 areas in complementary medicine.

8 DR. GORDON: Wayne, could you just define what
9 you mean when you say "integrative medicine"?

10 DR. JONAS: Integrative medicine involves the
11 use of complementary and alternative medicine within the
12 conventional health care system as part of our health
13 care delivery in some way. It doesn't necessarily mean
14 it needs to be in hospital, it just needs to be part of
15 the individual's health care complex.

16 We listed a number of agencies in which that
17 could occur. Joe just mentioned to me that we didn't
18 address the whole issue of targeting specific vulnerable
19 populations, areas like end-of-life, but my feeling is
20 that if we played on the strengths of these agencies,
21 that many of them have special populations, like HRSA,
22 that they deal with, and that we perhaps would then get

1 encouragement across the board in terms of different
2 types of research, especially areas that are outside HHS.
3 DoD, the VA, has a lot of research capacity and is
4 willing. We heard from them, and they are willing to do
5 research in these areas.

6 Let them build on the strengths of what they do
7 best. Of the six general areas that we framed in the
8 beginning, different agencies do different aspects of
9 those better than other agencies. AHRQ, for example,
10 does the reviews better than anyone else. They do health
11 services better than anyone else. NIH likes to focus,
12 and does a lot of good work in randomized, controlled
13 trials, basic science research. That should, perhaps, be
14 an emphasis for them in other areas, et cetera.

15 Finally, we also asked, how can there be
16 stimulation of research in other areas besides the
17 federal government, academic health centers. I think one
18 of the things we thought was especially important that we
19 heard over the last couple days was investment in
20 infrastructure in academic health centers. These
21 academic health centers include complementary and
22 conventional health centers.

1 They may require different mechanisms,
2 different approaches to that, but they all need training,
3 they all need equipment, they all need expertise in
4 methodology, they all need to take a team approach, they
5 all need informatics aspects. The federal government has
6 a number of ways in which they invest specifically in
7 infrastructure to get a critical mass of researchers, and
8 those should be encouraged.

9 Under foundations, I think you addressed this.
10 We didn't talk about it too much, but we agreed,
11 relatively easily, we could facilitate coordination among
12 foundation, private and federal, through meetings and
13 things like that, so that they are at least talking to
14 each other, and talking about the kinds of things they
15 are providing.

16 In the private sector, there were a number of
17 mechanisms that policies could be targeted towards. Some
18 kind of market protection was mentioned for private
19 groups that invest in research and products and
20 particular practices. I put down patents. That is a
21 major issue. It hasn't been discussed a whole lot here,
22 but again, that is another way of coming up with market

1 protection.

2 DSHEA, we have already mentioned. Modification
3 or implementation of DSHEA in a way that encourages
4 research, rather than discourages it; tax incentives,
5 SBIRs. The orphan drug approach was thought of as being
6 a way of providing some kind of market protection, or as
7 an example of providing some kind of market protection.

8 Training. Since I misinterpreted training as
9 framing, we didn't talk about it. Never mind.

10 Regional collaboration was felt to be extremely
11 important. In other words, getting complementary groups
12 and conventional groups to work, such as in the
13 Northwest, was brought up as an example of where that is
14 occurring, and should be encouraged.

15 We didn't really didn't get into details about
16 how to get state and local governments more involved in
17 the area, but thought it was important, and having a
18 repository of research methods, facilities, resources, et
19 cetera, that have an interest and are doing work in
20 complementary and alternative medicine, an information
21 source for research itself, not the results of research,
22 which is information, but actually, the funding sources

1 and approaches, and types of things they are looking for
2 among these agencies, would be useful.

3 Oh, yes, we did mention paradigms, and we
4 assumed that for 20 cents on your tax dollar, you could
5 get a couple.

6 DR. GORDON: Thank you, Wayne.

7 Tom, and then Joe.

8 MR. CHAPPELL: I am wondering if we could begin
9 a drafting of something for the area of herbs,
10 botanicals, and so forth, as an interim report to
11 postpone this. We are beginning to get a better
12 understanding of this, and had a lot of testimony. I
13 think it would be wise to begin to draft a set of
14 recommendations regarding this whole area of concern.

15 Since the committee, this working team, has
16 identified it as a problem, could we begin to draft some
17 language?

18 DR. GORDON: So, what is the problem?

19 MR. CHAPPELL: The DSHEA. So whether DSHEA is
20 sufficient or insufficient. Do we have sufficient laws.
21 If not, what are our recommendations going to be?

22 DR. GORDON: Dean.

1 DR. ORNISH: This is one of the things that
2 came up in the discussion we just had, which is whether
3 we get into that level of detail, or whether we just
4 simply say that we think there are issues within DSHEA
5 that need to be addressed. I think that if we get too
6 much into that level of detail, it might be polarizing or
7 distracting from what our overall mission may be.

8 DR. GORDON: Did you want to address DSHEA?

9 DR. FINS: I think I agree with Dean. I think
10 the notion is, we have identified problems. Whether it
11 is resolved with an amendment, a repeal, better
12 implementation, I don't think we are in a position to
13 address, but I think it is valuable to simply put it out
14 there that there is a problem, and not to get to the
15 specifics.

16 DR. GORDON: My thought is, there are two
17 levels to DSHEA. One is, there are certain things that
18 have come out consistently in these meetings about DSHEA.
19 One is that there needs to be good manufacturing
20 practices. Second is, that the labeling needs to
21 reflect, which is related, what is inside the bottle.
22 The third is, the FDA has to have more authority, not the

1 same authority that they have, and more money to enforce
2 the provisions of DSHEA.

3 So I think there are some basic recommendations
4 we can make, that we have heard from every part of the
5 spectrum, about DSHEA as it presently exists, and I think
6 we may or may not want, depending on an analysis of what
7 is there, to take a look at other possibilities.

8 Tieraona.

9 DR. LOW DOG: I just want to remind us that the
10 first two things you said are already in place, though
11 they are not enforced.

12 DR. GORDON: That's right.

13 DR. LOW DOG: The first thing is, it has to be
14 what is in the bottle; it has to be what it says on the
15 label. That is by law. I know it is poorly enforced.

16 The second is, GMP, which, the FDA is
17 eventually going to publish and release those findings.
18 So GMP is there. It is a matter of giving and empowering
19 the FDA the power to be able to enforce, or perhaps
20 looking at rather they should have pre-market kind of
21 authority. The FTC for label claims, the FDA, if it
22 shown to cause harm, and too, if it is not meeting

1 claims.

2 DR. GORDON: That is what I was basing my
3 analysis on. The point is, that I think it is important
4 for us to take a strong public stand on these provisions
5 that are already in DSHEA. So if we try it and we really
6 do it, we may find it works rather well, or we may not.
7 Then there are the whole complex issues that you are
8 talking about of DSHEA.

9 Joe, and Tom. Anyone else?

10 DR. FINS: I would suggest, because I think
11 there are other issues that we need to talk about here,
12 that maybe we ask the staff to draft what you just said
13 in the Interim Report that will be circulated, and then
14 we can deal with the specifics. I think there are wide
15 areas of consensus, and I think it would be helpful to
16 have a real text in front of us.

17 If I could move onto another -- no?

18 DR. GORDON: Let's finish up with the DSHEA,
19 and then come back.

20 DR. JONAS: I agree with what you said. I want
21 to add one item that relates to this research area, and
22 that is, it should also be looked at in terms of its

1 ability to facilitate research, not inhibit research, in
2 addition to those others.

3 DR. GORDON: Tom.

4 MR. CHAPPELL: I think we need to add safety to
5 that list of three that you identified that needs to be
6 looked at in this Interim Report, and we need to look at
7 the question beyond DSHEA and the FDA in terms of the
8 efficacy.

9 I think Dr. Grollman's proposals, specifically
10 Recommendations 3 and 4 relating to funding efficacy
11 trials at NIH, are very important here because the
12 problem is, it is very hard to find the mechanism of
13 action when it deals with this category. It is a far
14 greater research burden to approach efficacy than it is
15 to approach safety.

16 So I think safety and efficacy need to be
17 treated on different levels, different recommendations,
18 and I don't think it is too complex for us to deal with,
19 so I am glad you are willing to begin the drafting of it.

20 DR. GORDON: I think it is complex in every
21 way, especially politically.

22 MR. CHAPPELL: Well, that is okay, but that is

1 why we are here.

2 DR. GORDON: No, I understand. So what I am
3 saying is that, for the Interim Report, I think we need
4 to lay out where we have consensus, and then for the
5 Final Report, if we start looking at some of the issues,
6 then we can have some time to discuss them and figure out
7 where we stand.

8 MR. CHAPPELL: Thank you.

9 DR. GORDON: Joe.

10 DR. FINS: I just want to make passing
11 reference to the idea about the NEH, the National
12 Endowment for the Humanities. I think one of the things
13 that we really haven't addressed, that I think we really
14 need to address more fully, is this phenomenon, this
15 social movement which is CAM and what it means for
16 American society, good, bad, and indifferent.

17 I think that the reason I really favor the NEH
18 is that it is a different kind of scholarship.
19 Conclusions that are drawn in the medical humanities do
20 not necessarily have to adhere to the scientific method
21 because they are asking different kinds of questions.
22 The sociology, our cultural values, why this Commission

1 itself was created at this time and at this place.

2 I think future historians will really be
3 appreciative of the fact that we made a nod to the NEH
4 and the humanities to address these broader issues, as
5 well. I think a small amount of resources directed
6 towards the humanities will have enduring effects that
7 will outlive any of us in this room.

8 I just want to make an appeal for that. I know
9 Linnea feels strongly about that, and some of the other
10 Commissioners. So I hope that that gets some traction.

11 DR. GORDON: Joe, could you say a little bit
12 more about what you mean by NEH?

13 DR. FINS: The National Endowment for the
14 Humanities.

15 DR. GORDON: No, I know that, but what are you
16 thinking of?

17 DR. FINS: Well, they fund a lot, and there are
18 state humanities councils that actually go out and foster
19 the fine arts, literature, history projects, the kinds of
20 things that really address the cultural richness of our
21 society. I think that the evolution of CAM is part of
22 our cultural inheritance and the legacy that this

1 generation will leave to future American generations.

2 So I think we just need to understand what it
3 means in a different kind of way. I am a big proponent
4 of the scientific method for scientific questions, but I
5 think that these are different kinds of social, cultural,
6 anthropological kinds of concerns.

7 DR. GORDON: Joe.

8 DR. PIZZORNO: Jim, I would like to second what
9 you said about DSHEA. What we have in place needs to be
10 enforced, and the FDA needs to be funded for it.

11 However, I also would like to take one step
12 further, and that is, I believe DSHEA does not have
13 adequate safety components to it. I think before a
14 product is allowed on the market, there should be basic
15 safety documentation, and that is not required right now,
16 and I think that is a serious flaw.

17 DR. GORDON: Do you think we have enough
18 consensus to put that in the Interim Report, or do you
19 see that for the Final Report?

20 MR. CHAPPELL: You have my consensus.

21 DR. LOW DOG: Can I say something?

22 DR. GORDON: Sure.

1 DR. LOW DOG: There are 2,400 botanicals sold,
2 if you include all the herbs in commerce, 2,400. They
3 have not all been tested adequately for safety, and that
4 is going to cost an awful lot of money to test them all.
5 It will limit acupuncturists in their ability to
6 prescribe and use many of the Chinese remedies because
7 they have many in them that have very little data that
8 would be accepted or used here.

9 I agree, DSHEA absolutely missed the boat on
10 safety, but I think we want to be very, very thoughtful
11 in how we go about defining our recommendations. If we
12 are going to undertake that, I think it is one thing to
13 say, we do not believe that DSHEA has adequately
14 addressed safety.

15 I think it is quite another thing to try to say
16 or come up with the recommendations for how they should
17 go and fix that, because I think it is a huge issue.
18 That's all.

19 DR. GORDON: Dean, you had your hand up.

20 DR. ORNISH: Again, especially in the Interim
21 Report, we should try to find areas of consensus, and if
22 there are people who have strong feelings, rather than

1 trying to resolve the differences, I think we ought to
2 just take note of the differences, see where we can come
3 to consensus, and then leave it for later to try to
4 resolve them. I think it is just going to take too long
5 otherwise.

6 DR. PIZZORNO: Tieraona, I agree with you on
7 the one hand, because there is a lot traditional medicine
8 we don't want to lose access to you and I both use.

9 On the other hand, there are a lot of products
10 out there that are adulterated. We have had experiences
11 in Seattle.

12 DR. LOW DOG: That is GMP.

13 DR. PIZZORNO: Pardon?

14 DR. LOW DOG: That is a GMP issue.

15 DR. TIAN: That is a quality issue. That is
16 not a safety issue.

17 DR. PIZZORNO: I concede. In terms of the
18 expense of safety testing, it is not that expensive.
19 There is now microbiological testing that can be done
20 that is not particularly expensive. Any manufacturer who
21 is bringing these products into the market can spend a
22 few hundred dollars for these real basic screening

1 processes.

2 DR. GORDON: Joe, I think it is much more
3 complicated because something may be safe in a biological
4 system, and may not be safe for humans.

5 DR. PIZZORNO: We have to start somewhere.

6 DR. GORDON: But I think that the issue here --
7 I have to say one sentence, Effie, and then you and Ming
8 can speak -- the issue here is that it is very complex,
9 and I just don't feel comfortable at all getting into it
10 in the Interim Report. Safety is an issue, but how to --

11 DR. PIZZORNO: For the Interim Report, I am
12 okay.

13 DR. GORDON: Ming.

14 DR. TIAN: I agree with you, Jim. I think this
15 is really complicated issue, because whenever we say
16 anything, it just cannot cover everything. If I
17 understand, most herbs and dietary supplements are
18 generally considered as safe. Maybe some things are not
19 safe enough, but when you set up the standard for all the
20 dietary supplements, there is going to be a problem.

21 Who is going to do that? That is the second
22 thing. There is no such standard that we can test all of

1 them, because we are talking about quality control, GMP.
2 The second one we are talking about is safety. Number
3 three, efficacy. When this is so effective to treat any
4 disease, then the dietary supplement is not considered as
5 a dietary supplement, it should be as an OTC drug.

6 DR. GORDON: I would like to get off this
7 topic, because I think it really needs a lot more
8 discussion, and I would like to get back. We only have
9 about 10, max, 15 minutes more, if that is okay, Effie.
10 Or, do you have something --

11 DR. CHOW: I agree with you that I think we
12 need to be very sensitive about that, particularly when
13 there are other groups that are dealing with it. I think
14 to make final recommendations that say we should be
15 communicating with them, or recommend that we communicate
16 with the other groups, take it very carefully. I don't
17 believe that in this Interim Report, we should say much.

18 DR. GORDON: Okay, thank you.

19 So let's go back and let us focus and see if
20 there are other issues in this Research Report that we
21 want to deal with.

22 Anybody else, any thoughts about this? Well,

1 one thought that comes to mind, in addition to framing, I
2 would like to talk about training.

3 [Laughter.]

4 DR. GORDON: I think we need to make some
5 recommendations about training. I think some of the
6 things that we have heard today about training, if
7 everybody is comfortable, we can put together a kind of
8 synthesis of what we heard from the training panel and
9 what we heard from the Commissioner's questions, and
10 perhaps even put forward some recommendations to consider
11 for the Interim Report.

12 If there is anything anyone wants to add to it
13 now, that is great. Wayne.

14 DR. JONAS: Training, in one way, is part of
15 the infrastructure, development of the infrastructure. I
16 actually had it up there, I think, if not, I will stick
17 it up there.

18 DR. GORDON: Yes, it is up.

19 DR. JONAS: However, the other kind of unique
20 thing about complementary medicine is that the training
21 needs to be in order to bridge the standard research
22 methods and individuals that have knowledge about

1 complementary medicine. It is to address the two
2 cultures, if you will, as was mentioned in there, or to
3 provide what David Eisenberg calls dual-skilled
4 individuals, and that should be the focus of the
5 training.

6 DR. GORDON: Right. Okay, good.

7 Other research issues that either have been
8 raised by Wayne and his group, or that you think we need
9 to be addressing?

10 Some of them we have talked about before. I
11 just want to bring a couple up, and maybe they will lapse
12 over, or maybe emphasize the whole issue of integrative
13 medicine, or, if you will, complex, many-modality
14 approaches. I have a sense that we a consensus on that,
15 that that is an important area that we want to urge
16 investigation of.

17 Is that correct? That is, approaches that not
18 just are just single procedure, but complex approaches
19 that may involve acupuncture and diet and exercise.

20 One of the areas, and maybe we want to wait on
21 this, is the whole area of so-called "frontier science".
22 Maybe that is one we need to think through more and talk

1 more about, but in terms of making recommendations for
2 more investigation in this area of energy medicine, areas
3 of distant healing. I am thinking aloud now.

4 DR. ORNISH: I guess, Jim, part of that, if we
5 agree that we should take certain methodological
6 approaches, as several people testified today, they can
7 be applied to a number of different things. The only
8 methodological issue becomes, is it measurable or not,
9 trying to measure qi, for example. How do you do that?

10 I am not sure where you are going with that.
11 Are you saying we should devise new methodologies for new
12 problems? Or, are you saying that we should make sure
13 that a variety of things be studied in addition to the
14 traditional ones.

15 DR. GORDON: No. That is a whole other
16 question, about new methodologies or new instrumentation.
17 No, I wasn't talking about that. I think, just as with
18 the creation of the OAM, it focused attention on certain
19 approaches to medicine and healing that were not being
20 generally considered, so the creation, the recent NCCAM
21 RFA for a center on frontier medicine began to focus the
22 issue on some of those other approaches to healing.

1 It is not that the techniques of evaluating
2 them are any different, and perhaps we ought to just put
3 this off and let this go, but whether or not we want to
4 come out strongly on the side of looking at approaches
5 that are beyond the generally accepted, even though we
6 accept them as part of CAM, everything from shamanic
7 practice and studying shamanic practice, to understanding
8 and studying healing at a distance or healing by
9 intention. That is the thought that was going on.

10 So it is not a difference in method, it is just
11 an emphasis on another subject.

12 Wayne.

13 DR. JONAS: I think this is very important to
14 put in, and the reason is because this addresses the
15 paradigm issue that we didn't talk about. Many, many
16 complementary or traditional medical systems do not share
17 the same assumptions about fundamental science and
18 reality that we do in Western medicine. They are
19 literally outside the paradigm of causality and a variety
20 of other things. Yet, they are an integral part of their
21 system, the practitioners use them, they frame their
22 therapies based on them, et cetera, et cetera.

1 So, how can this get addressed? So I think to
2 frame it in terms of the fundamental assumptions that
3 currently lie outside the paradigm; are there ways in
4 which we can use the scientific microscope to examine
5 these, and is there a way in which the government can
6 support that.

7 The other thing that comes into that is that
8 there is a lot of the public very interested in these
9 areas, and yet the scientists aren't. So it is another
10 area of public-scientists interest gap, and I think that
11 justifies it.

12 There are places where we could encourage that
13 to happen. I think it is in the basic science areas,
14 through groups like National Science Foundation, et
15 cetera, using the standard procedures that they have for
16 trying to develop and encourage good research in those
17 areas.

18 DR. LOW DOG: I just wanted to say, that is,
19 again, where you want to collaborate with your medical
20 anthropologists who have been studying all of this in
21 traditional cultures, looking at how they diagnose, how
22 they treat, and their whole system of belief, and how

1 that influences, then bringing your basic scientists and
2 that. But that is where you want that collaboration.

3 DR. JONAS: And clarifying, really, in Western
4 terms what those assumptions are in those societies.

5 DR. GORDON: The question I have here -- Effie,
6 go ahead. Do you want to say something?

7 DR. CHOW: Just a brief thing. Also, the
8 speaker on psychoneuroimmunology, that is a new science
9 that fits into this.

10 DR. GORDON: The question I have here is a
11 tactical one. It sounds like we all feel this is an
12 important area. The question is, do we make a
13 recommendation in the Interim Report, or, do we simply
14 raise this area, and then make recommendations in the
15 Final Report.

16 DR. ORNISH: My question is, who reads the
17 Interim Report? I am still not clear.

18 DR. GORDON: What, Dean?

19 DR. ORNISH: Who gets a copy of the Interim
20 Report? Is it just an internal document, or is it a
21 public document?

22 DR. GORDON: The Interim Report is a public

1 document. How does that affect your thoughts?

2 DR. ORNISH: Well, I think if it is an Interim
3 Report, we can include things that we wouldn't
4 necessarily want to see the light of day just yet. My
5 own belief is that we want to really be careful on the
6 Interim Report and stick to areas that we have consensus,
7 particularly at a new administration who is going to be
8 looking at this, and is going to be looking at how people
9 react to this, even more than looking at it directly. If
10 it provokes a lot of controversy or polarization, I think
11 it is going to make it that much more difficult to get
12 our Final Report done.

13 If, on the other hand, we write something that
14 we can all stand behind that doesn't cause polarization
15 within the Committee, which would be the worst thing,
16 then it doesn't provoke a too heated response from the
17 general public, then I think it is going to make it
18 easier to continue doing the work.

19 It goes back to the incremental approach that
20 we were talking about and that has been presented to us.
21 I think that, while there is always a tendency that I
22 have to want to do it all right now, immediately, which

1 is my nature, I am learning a little more in my old age
2 that there is something to be said for taking a longer
3 view of this. I think that in this case, that might
4 apply.

5 DR. FINS: I really endorse that. I think, up
6 to this current session, we were really very clearly
7 developing a consensus on 80 percent of the issues. I
8 think we have the potential to have problems with the
9 membership on issues that are very complicated, like
10 DSHEA, on specifics about funding. I think we can say
11 that there are problems out there about regulation of
12 supplements but not get into the specific details that
13 have the potential to fracture the recommendations.

14 So I would, again, urge what I urged --

15 DR. GORDON: Were you feeling that about this
16 issue, as well?

17 DR. FINS: Yes, a little bit. I think there is
18 so much that we have come to agree upon.

19 DR. ORNISH: Yes. I want to echo that.

20 DR. FINS: I would hate to jeopardize that at
21 this stage.

22 DR. GORDON: Let me make a suggestion.

1 Everybody probably wants a little break before Public
2 Comment. Yes?

3 So the suggestion would be that this is clearly
4 an important issue, that it is one that we at least
5 prepare, and I am looking over at Jim Swyers as I say
6 this, that we at least some material and some points for
7 discussion, but that we not be planning to come out with
8 a recommendation in the Interim Report.

9 I don't think it is just my feeling that it
10 needs more discussion and needs more solidity to it, and
11 needs more consensus.

12 DR. ORNISH: Maybe we can have an internal
13 document, just among ourselves, that lists the more
14 controversial areas that we want to explore to see how
15 far we get.

16 I agree with Joe. I have been very encouraged
17 by how this very disparate panel, who have come from very
18 different places, is moving much more towards consensus
19 than I ever thought we would see.

20 DR. GORDON: Does that sound okay, that we
21 raise the issue? I think that what we can do is, that
22 when it comes time to formulate it, we can formulate it

1 in a way that will be heard and that will not create
2 problems; quite the opposite, will gain support.

3 DR. JONAS: I agree, there are ways it can be
4 formulated in which it will be heard. I think one of the
5 ways to do this is to simply acknowledge that there are
6 assumptions that are part of non-Western cultures that
7 are now part of our culture because there is a multi-
8 ethnic group of the United States, and that these
9 assumptions need to be examined, systemologically or in
10 some manner.

11 DR. GORDON: So I think, as we are thinking
12 about the Interim Report, we can think about some
13 statements about where we are, what we recommend, because
14 there is a clear consensus, and then other issues that
15 are part of our understanding of the field as a whole
16 that we will be addressing in the Final Report. I would
17 see these other realities as being one of those issues.

18 Great. Thank you. Thanks for lots of work in
19 this condensed period. Let's take a 10-minute break. We
20 will back at 4:15, and we will begin public testimony at
21 that point.

22 [Recess.]

Public Comment Session

DR. GORDON: We will begin with James Sensenig.

DR. SENSENIG: Dr. Gordon and Commissioners, my name is Jim Sensenig. I am a naturopathic physician. I was the founder of the American Association of Naturopathic Physicians, and I have served as the dean of two of our colleges. I am here today on behalf of the American Association of Naturopathic Physicians and the American Association of Naturopathic Medical Colleges.

We need medical pluralism in this country for the same reason that we need diversity amongst the plant species of the rain forest. It maintains the gene pool, enhances creativity, allows for the competition of ideas, and stimulates critical thinking.

Furthermore, we do not know which of those plants in the rain forest or which of the therapeutic systems holds the medicine that we need to heal our health care system, our nation, and the planet. It is likely that they all do.

You have been asked by the President of United States, in my opinion, to not only survey the forest of healing, to identify the species of therapeutic systems,

1 but also to preserve the diversity of the ecosystem for
2 the benefit of the health of our nation.

3 While the details of our recommendations to the
4 Commission have been previously submitted and are in the
5 written testimony today, they can be summarized thusly:

6 First, ask the Congress to commit this nation
7 to medical pluralism;

8 Secondly, inasmuch as these diverse systems
9 constitute a national treasure, use them to pay down the
10 debt of human illness and suffering in this nation.

11 Thirdly, nurture the diversity of this
12 ecosystem by pruning back the barriers to access and by
13 fertilizing the ground with the richness of our academic,
14 economic, and scientific communities.

15 Fourthly, we want to thank you all for having
16 the courage and the energy to put into this project
17 because we know it will change the face of our health
18 care system. Thank you very much.

19 DR. GORDON: Thank you very much.

20 Candace Campbell. Candace has a statement that
21 she has ready on the Access to Medical Treatment Act. I
22 have also asked her to speak for two minutes relating to

1 DSHEA, because I thought she had some information that
2 might be helpful to the Commissioners. So I think I will
3 let her do that in seriatim, so that we don't have to
4 just go to it with the Questions and Answers.

5 So, please, Candace.

6 MS. CAMPBELL: I am the executive director of
7 the American Preventive Medical Association, and I came
8 here today to ask you to recommend passage of the Access
9 to Medical Treatment Act, which will be introduced this
10 week in the House, and then the Senate soon thereafter.

11 You have a copy of the bill in the background
12 materials in the written material I provided.

13 Why, you may ask, am I requesting passage
14 during a week when you are talking about research and
15 reimbursement? Because we believe that Americans should
16 have the right to access therapies as soon as possible,
17 and not have to wait decades for all the research to be
18 in, or for the FDA to approve a drug. We believe that
19 many lives could be improved and saved in the interim
20 years.

21 The Access bill, for those of you who are
22 unfamiliar with it, would create a federal statutory

1 right for Americans to use any therapy they desire, so
2 long as they and their authorized practitioner follow the
3 consumer protection guidelines in the bill.

4 There are four main categories of things that
5 would be accessible, drugs approved and used safely in
6 other countries that are not available here because the
7 companies have not sought FDA approval; drugs in the FDA
8 approval pipeline that are showing promise, but that are
9 not available to patients who do not fit the tight
10 clinical trial guidelines; therapies that are not
11 patentable, and therefore will never go through the FDA
12 approval process; and therapies that would be called
13 experimental but for which there is evidence of safety
14 and efficacy.

15 This last category would include the unapproved
16 therapy for Lyme disease which cured former Congressman
17 Berkley Bidell, and about which he testified last year.

18 APMA and scores of other organizations, and
19 millions of patients and their practitioners believe that
20 patients should have the right to make the most personal
21 of all decisions, how to treat and cure their disease.
22 That choice should not be limited by bureaucratic,

1 political, or unnecessary financial roadblocks.

2 Do we really want to criminalize the doctors
3 and patients who are seeking safe and effective
4 treatments? Do we want to promote a black market in
5 effective therapies and leave patients prey to
6 unregulated promoters of miracle cures?

7 We would rather see Americans going to duly
8 authorized health care practitioners in this country,
9 instead of having to sneak across the border to Mexico,
10 Canada, or the Bahamas, to receive treatment in clinics
11 that may or may not be reputable.

12 We would rather see data collected and
13 disseminated about these therapies so that we may all
14 learn and benefit. We would rather see all Americans
15 have access to the full range of therapies, not only
16 those who can afford to go to Germany for six months or a
17 year of treatment, and not only those who are diligent or
18 lucky enough to discover that they actually have options
19 beyond what the FDA, AMA, state medical boards have
20 sanctioned.

21 We would like to see a health care system that
22 embraces advancements and accepts science from other

1 parts of the world. NIH should not stand for "not
2 invented here". We believe that the Access bill provides
3 an appropriate balance between increased freedom and
4 adequate consumer protections, and we believe that
5 Americans deserve health care freedom.

6 When I was sitting in the audience for the past
7 hour or so, I was biting my tongue during your discussion
8 of DSHEA because, frankly, I wasn't sure if you had heard
9 any testimony about the Pierson decision, which we were
10 one of the parties to. That was a First Amendment case
11 revolving around the FDA's handling of health claims for
12 supplements. What I suggested to Jim during the break is
13 that you need to be extremely careful, if you are
14 planning to make recommendations about revisiting DSHEA.

15 I would suggest to you that the problem is not
16 so much with DSHEA as with the agency's implementation of
17 DSHEA. Their cries for more power and money are nothing,
18 if not disingenuous. We won that case two years ago,
19 after a six-year, very expensive battle.

20 The appeals court told them that they must
21 allow health claims, they must define significant
22 scientific agreement, which is their benchmark for

1 approving a health claim, and which they have yet, two
2 years after the court case, to define.

3 In order to force them to comply with the laws,
4 we filed five health claims after the Pierson decision.
5 They rejected all five, without having defined
6 significant scientific agreement. We filed two more
7 suits. We won them both, but not after more years, more
8 money. I don't think that supplement companies and the
9 American public should be forced to go to court and spend
10 hundreds of thousands to force a federal agency to abide
11 by the law.

12 We have met nothing but lies and deceit. They
13 cook the books when they judge the science. They cook
14 the books when they determine how long it takes them to
15 approve a drug approval. There is an incredible
16 institutional bias against natural products, and dietary
17 supplements in particular. We have had landmark
18 victories over the past several years. I am tired of
19 suing the FDA. I think you have huge problem with the
20 definition of "drug," not with DSHEA.

21 DR. GORDON: Thank you, Candace.

22 I wanted her to raise this issue so we could

1 have some conversation now, but also, just to give a
2 sense of the complexity of some of the issues as we get
3 into them.

4 Diane Davis Cole.

5 MS. COLE: Hi. My name is Diane Cole, and I am
6 an education coordinator at the University of Virginia in
7 the Cancer Center. I address you on behalf of health
8 care providers and educators who are mandated to educate
9 patients and their families at cancer centers across the
10 country.

11 What we know is that 50 percent or more of all
12 cancer patients are using some form complementary or
13 alternative therapy. We are trying to address the
14 quality of that information for the protection of the
15 patient. Our patients are very vulnerable to being taken
16 advantage of by companies and products whose bottom line
17 is profit instead of cure or quality of life.

18 Many of them trust their health professionals
19 to provide excellent medical care, but they want to do
20 more for themselves that help them feel in control.
21 These patients are making decisions about, and are
22 spending thousands of dollars on some therapies and

1 products that have very inconsistent data to support
2 their benefit.

3 When they search the Web, there is no standard
4 on which to judge the credibility of the websites. Many
5 patients will not tell their physicians what CAM
6 therapies they are using, and many physicians do not feel
7 comfortable advising their patients about what CAM
8 therapies to use, if any.

9 Members of our network hear patients express
10 their frustration and confusion about what they should be
11 doing in terms of CAM every day. In response to this, we
12 have developed a guide to CAM resources, which is not
13 exhaustive, but it gives patients a start. This guide is
14 provided in your packet of information.

15 Our network offers the following observations
16 for your consideration based on our experience with this
17 particular patient population. Students preparing to be
18 health care professional, as well as those already in the
19 field, should be educated on complementary and
20 alternative medicine practices and interventions. A
21 better understanding of CAM services by all health care
22 professionals is the best way to eliminate barriers and

1 make CAM service more accessible.

2 An oversight department in Health and Human
3 Resources must be at the forefront of consumer safety
4 issues, responsible for the labeling of herbal natural
5 products and supplements. Consumers should be able to
6 read a label and make good decisions about possible side
7 effects and/or food/drug interactions.

8 Medicare and third party reimbursement should
9 be available to include modalities such as massage,
10 acupuncture, and visits with other certified
11 practitioners. Research in this area could prove that
12 there is a real potential for tremendous cost savings to
13 the burden of the present health care delivery system.

14 Lastly, more research is needed in
15 complementary and alternative medicine modalities.
16 Research could encompass case studies and clinical trials
17 that include the study of the placebo effect.

18 Thank you for the time dedicated to this
19 important topic of complementary and alternative medicine
20 that now occupies a prominent position in the delivery of
21 health care services to our cancer patients.

22 DR. GORDON: Thank you, and thanks for the work

1 you are doing.

2 Susan Pittman.

3 MS. PITTMAN: Thank you. My name is Susan
4 Pittman, and I am a registered dietitian, and I am
5 representing the American Dietetic Association today.

6 The American Dietetic Association represents
7 70,000 food and nutrition professionals who serve the
8 public by promoting nutritional health and well-being.
9 Many ADA members are licensed, registered dietitians who
10 provide medical nutrition therapy and preventive care
11 nutrition counseling to hundreds of thousands of
12 Americans each year.

13 To date, 43 states, the District of Columbia
14 and Puerto Rico have laws that recognize dietetic
15 professionals. ADA members base work on sound
16 information drawn from peer-reviewed nutrition research
17 and credible sources representing scientific consensus.

18 The members of the ADA generally see nutrition-
19 related CAM therapies as potential components of medical
20 treatment and patient care, where sound, safe, and
21 empirically proven therapies can better serve patient
22 needs.

1 ADA welcomes additional research that can
2 support broader application of CAM practices. We believe
3 patients who utilize nutrition-related CAM modalities
4 should receive care from those who have appropriate
5 knowledge, training, and expertise. We also believe the
6 dietetic professionals are valuable members of the
7 extended team providers, and play an important role in
8 the integration of nutrition and other modalities of
9 treatment.

10 Science supports the role of preventive
11 nutrition and the role of medical nutrition therapy, or
12 MNT, in managing disease. However, continued research is
13 needed to evaluate fully many CAM practices, and to
14 provide the substances for evidence-based medicine. ADA
15 urges that any preventive or treatment strategy,
16 conventional or CAM, be supported by sound science and
17 evidence-based practice before it being integrated into a
18 health care strategy.

19 ADA recognizes that nutrition intervention,
20 such as MNT or the use of dietary supplements may reduce
21 or eliminate the need for more costly medications or
22 treatments. In the case of medical nutrition therapy, we

1 have science to verify the role dietetics plays in
2 medical care and outcomes research to demonstrate the
3 effectiveness of MNT in treating diabetes, renal disease,
4 and cardiovascular conditions.

5 To help consumers make wise choices about food
6 and dietary supplements, dietitians can provide nutrition
7 counseling and education, and can work with patients in
8 developing a sound strategy to obtain nutritional health.
9 Dietitians are the best source for consumers who need or
10 desire nutrition guidance, and are most qualified to
11 provide advice about whether to consume dietary
12 supplements, which ones, and in what amounts.

13 For example, European studies support the use
14 of St. John's wort for mild depression, which can be
15 purchased for half the cost of selective serotonin re-
16 uptake inhibitor. While this herb may be safe and
17 efficacious for some, St. John's wort has shown to
18 interfere with the efficacy of certain drugs, such as
19 Coumadin, cyclosporine, digoxin, and protease inhibitors,
20 and should not be consumed by patients who rely on these
21 medications.

22 There are many examples of food drug and

1 supplement drug interactions, which make evident the need
2 for dieticians, especially as more Americans consider the
3 use of dietary supplements.

4 ADA believes all Americans should have access
5 to nutrition services. Such services are covered through
6 reimbursement payments in some hospitals, home health,
7 and post-acute care settings, but inconsistently among
8 insurance plans, and generally at levels inadequately to
9 meet the needs of many Americans, particularly older
10 Americans.

11 We hope work will progress rapidly to advance
12 our understanding of the role of nutrition in preventing
13 or delaying the onset of many chronic diseases, and to
14 substantiate through evidence-based practice that
15 coverage of nutrition services is a wise investment in
16 public and private health care programs. Thank you.

17 DR. GORDON: Thank you.

18 Audrey Di Maria.

19 MS. Di MARIA: Good afternoon. My name is
20 Audrey Di Maria, and I am secretary of the Art Therapy
21 Credentials Board, which oversees the credentials of
22 about 3,500 art therapists nationally.

1 I understand that Linda Gant, past president of
2 the American Art Therapy Association, has submitted
3 material regarding art therapy research. So I am
4 speaking about art therapy training and credentialing.

5 The American Art Therapy Association, or ATA,
6 regards the masters degree as entry level to the
7 profession. It sets standards for the training of art
8 therapists that include the completion of 45 credit hours
9 of course work and 700 hours of supervised practical
10 work.

11 Many programs require more. At the George
12 Washington University Art Therapy program where I teach,
13 students must have a minimum of 1,100 hours of clinical
14 work, one year with children, and one year with adults.

15 Settings range from traditional psychiatric
16 hospitals to hospices, prisons, shelters, nursing homes,
17 hospital waiting rooms, and even corporate board rooms.

18 Of the 40 training programs nationwide, 28 have
19 thus far obtained ATA approval. Graduates of approved
20 programs must accrue 1,000 hours of direct client contact
21 before applying for registration with the Art Therapy
22 Credentials Board, the ATCB. Graduates of non-approved

1 programs must accrue 2,000 hours. At least half of the
2 100 hours of supervision required must have been provided
3 by a registered art therapist, an ATR.

4 At present, 2,200 art therapists are registered
5 with the Art Therapy Credentials Board, and thus, are
6 eligible to sit for the National Certification
7 Examination.

8 I would just like to say that the music
9 therapists were very helpful to the art therapists when
10 we were developing our exam. Individuals who pass the
11 exam, are entitled to add B.C. after the A.T.R., becoming
12 art therapist, registered, board certified. Currently,
13 1,200 art therapists have been certified by the Art
14 Therapy Credentials Board. A recertification program
15 ensures that board certified art therapists earn at least
16 100 hours of continuing education every five years.

17 In two states, Kentucky and New Mexico, the
18 state licensing boards use the ATCB certification exam to
19 license art therapists. In 11 other states, counseling
20 bodies give art therapists seeking licensure as
21 counselors credit for the art therapy courses they have
22 taken. In two of those states, the ATCB certification

1 exam is accepted in lieu of the counseling exam.

2 Art therapists continue to work for licensure
3 in the other states, as well as in the District of
4 Columbia. Thank you.

5 DR. GORDON: Thank you.

6 Judy Simpson.

7 MS. SIMPSON: My name is Judy Simpson, and I am
8 the government relations associate for the American Music
9 Therapy Association. I would like to thank the
10 Commission for this opportunity to address research needs
11 and reimbursement challenges for our field.

12 Music therapy is an established health
13 profession in which music is used to address physical,
14 emotional, cognitive, and social needs of individuals of
15 all ages. We have a 50-year history of contributing to
16 the treatment of individuals with a variety of
17 disabilities and illnesses, with more recent expansion of
18 services to include prevention and wellness programs.

19 Board certified music therapists use both
20 instrumental and vocal music strategies to facilitate
21 changes that are non-musical in nature. After assessment
22 of the strengths and needs of each client, qualified

1 music therapists provide indicated treatment and
2 participate as members of the interdisciplinary team to
3 support a vast continuum of outcomes.

4 To advance the awareness of music therapy, I
5 have provided materials for the Commission's review,
6 including a CD ROM containing 35 years of published,
7 peer-reviewed research. This existing research not only
8 addresses direct benefits dealing with specific
9 illnesses, but also demonstrates how music therapy can
10 contribute to the amelioration of pain and distress that
11 sometimes occurs with conventional treatments and
12 invasive procedures. For example, the clinical
13 application of music during chemotherapy treatments has
14 been shown to reduce anxiety and nausea in oncology
15 patients.

16 Intervention benefits have received attention
17 outside of our association publications as well. In a
18 recent Journal of the American Medical Association, music
19 therapy research in a neonatal intensive care unit was
20 featured. Data on the physiological benefits of music
21 therapy included improved oxygen saturation levels,
22 increased weight gain, and shortened length of stay.

1 These positive outcomes, however, have not
2 translated into more research opportunities or more
3 access to services. If we know it can make a difference,
4 what steps are necessary to provide and reimburse music
5 therapy in every neonatal ICU. How do we progress from
6 any positive research finding to increased access and
7 coverage for effective music therapy interventions.

8 The truth of the matter is that music therapy
9 is not just a nice thing to provide to patients, but it
10 is a serious intervention supported by scientific
11 evidence. Even with our long history, we don't have the
12 necessary volume of research projects to make primary
13 reimbursement easy. We have nowhere near what other
14 related disciplines have when it comes to research
15 funding.

16 The lack of understanding and acceptance by the
17 federal government, along with limited funding for
18 research, direct services, and reimbursement seriously
19 restricts access to music therapy services. Without
20 federal recognition and support, it is difficult to
21 conduct the multi-site, large sample, longitudinal
22 studies that we need to demonstrate the outcomes and cost

1 effectiveness third party payers require.

2 The current method leaves music therapists as
3 freelance advocates with each provider an insurance case
4 manager to prove music therapy is a valid treatment
5 worthy of reimbursement.

6 We know music therapy can make a difference in
7 health care, but we need help in getting that message to
8 decision-makers. The American Music Therapy Association
9 would appreciate the Commission's assistance in securing
10 research funding and third party reimbursement for music
11 therapy. Thank you.

12 **Panel Discussion**

13 DR. GORDON: Thank you very much. Thank you
14 all.

15 Question from the Commissioners. Joe.

16 DR. PIZZORNO: Dr. Sensenig, thank you for the
17 eloquent statement about medical pluralism. I suspect
18 you speak for many CAM providers who feel we have so much
19 to offer, and yet are being seen as simply a source of
20 cherry-picking a few therapies.

21 Going along with the idea of nurturing medical
22 pluralism, what recommendations would you to this