

SOCIAL SECURITY ADMINISTRATION  
OCCUPATIONAL INFORMATION DEVELOPMENT  
ADVISORY PANEL QUARTERLY MEETING

DECEMBER 8, 2010  
RADISSON PLAZA LORD BALTIMORE HOTEL  
BALTIMORE, MARYLAND

\* \* \* \* \*

DR. MARY BARROS-BAILEY  
CHAIR

S R C REPORTERS  
(301)645-2677

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22

M E M B E R S

- MARY BARROS-BAILEY, Ph.D., CHAIR
- ROBERT T. FRASER, Ph.D.
- SHANAN GWALTNEY GIBSON, Ph.D.
- THOMAS A. HARDY, J.D.
- JANINE S. HOLLOMAN
- H. ALLAN HUNT, Ph.D.
- SYLVIA E. KARMAN
- DEBORAH E. LECHNER
- ABIGAIL T. PANTER, Ph.D.
- DAVID J. SCHRETLEN, M.D.

C O N T E N T S

ITEM:

-----

Welcome, Review of Agenda	4
Project Director's Report - Sylvia Karman	8
Ad Hoc Group Report Deborah Lechner	24, 61
Commissioner's Remarks	47

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22

C O N T E N T S (CON'T)

ITEM:

-----

Collaboration to Improve the Disability Determination Process	
Art Spencer	110
Dr. Elizabeth K. Rasch	113
Dr. Stephen Haley	130
Public Comment	198
Panel Discussion/Deliberation	213
Administrative Meeting	231
Adjournment	242

## P R O C E E D I N G S

1  
2 MS. TIDWELL-PETERS: Good morning. My  
3 name is Debra Tidwell-Peters, and I'm the Designated  
4 Federal Officer for the Occupational Information  
5 Development Advisory Panel. Welcome to the  
6 December 2010 quarterly Panel meeting.

7 I will now turn the meeting over to  
8 Dr. Mary Barros-Bailey, the Panel Chair. Mary.

9 DR. BARROS-BAILEY: Thank you, Debra.  
10 Good morning, everybody, this chilly  
11 December morning. I would like to thank you all for  
12 your attendance, live or telephonically, to the  
13 second quarterly meeting of the OIDAP for this  
14 fiscal year. It's nice to be in Baltimore. We have  
15 been all over the country, and it's good to be here  
16 and see a lot of the faces from Social Security  
17 among the audience.

18 If you hear a voice from on high, that is  
19 Dr. Gunnar Andersson, one of our panel members who  
20 could not be here live, but will be joining us  
21 telephonically. And if you are joining us  
22 telephonically, you can go to our web site, which is

1 Social Security "dot" gov, forward "slash" OIDAP, to  
2 follow along in terms of our agenda. You can look  
3 at agendas from past meetings, materials, technical  
4 working papers, formal correspondence. The two  
5 reports we have issued are up on line. One is a  
6 September report from last year. The National  
7 Academy of Science, our review of the -- their  
8 review of the O\*Net.

9           And shortly, there will be a couple of  
10 other pieces of information up on the web site. One  
11 of them will be a summary of the public comment that  
12 we had for nine months, and we delivered that report  
13 to the Commissioner yesterday. Another one will be  
14 the recommendation that we finalized in November.  
15 The general recommendation number eight, also known  
16 as the Occupational Information System Planning  
17 Recommendation.

18           As we indicate at the start of each  
19 meeting -- and I think it's important to reiterate  
20 each time -- our charter is to provide Social  
21 Security Administration with independent advice and  
22 recommendations for the development of an

1 Occupational Information System to replace the  
2 Dictionary of Occupational Titles in disability  
3 adjudication.

4 Our task is not to develop the OIS itself.  
5 As our name implies, it is to provide advisory  
6 recommendations to Social Security as it develops  
7 the OIS. Again, it's to provide advice and  
8 recommendations to the Social Security as it  
9 develops the OIS.

10 This meeting is particularly special.  
11 December 9<sup>th</sup>, 2008 -- so 2 years ago tomorrow --  
12 the Panel was chartered. And we are going to be  
13 honored this morning to have Commissioner Astrue  
14 with us to follow our Project Director's report, and  
15 also Deb Lechner's presentation. We're going to be  
16 a little bit flexible on the agenda this morning.  
17 It's my understanding he may be coming a little bit  
18 early, because he might have to leave a little  
19 early. So we will go with the flow with that.

20 The proposed rule for the revised medical  
21 criteria for evaluation of medical disorders in  
22 terms of the Federal Register notice had two

1 projects that SSA is currently undertaking that  
2 might have some significance to that. One of them  
3 is our project. Another one was the project of the  
4 National Institutes of Health with SSA. I had  
5 requested at the last Panel meeting that we hear  
6 what that other project was about. And we are going  
7 to be having a presentation from that project this  
8 afternoon. I think it's important to understand  
9 that sometimes projects are different and don't go  
10 to the same purpose. So it will be interesting to  
11 see what that project entails.

12           So after the break we will go into the  
13 routine items of our agenda, including Panel  
14 discussion and deliberations. We're going to have  
15 the opportunity for public comment. We're going to  
16 have the administrative meeting consisting of the  
17 review of the last teleconference Minutes, and  
18 discussion of dates for the 2011 meetings, as well  
19 as the March agenda.

20           Now, I would like to pass the meeting on  
21 to our Project Director for the Social Security  
22 Administration development of the OIS, Sylvia

1 Karman.

2 MS. KARMAN: Good morning.

3 DR. BARROS-BAILEY: Good morning.

4 MS. KARMAN: All right. Just as an  
5 overview, we are going to cover just a few things  
6 that have transpired since September. One of them  
7 was the creation of an office or unit dedicated to  
8 this project. I also will provide some status on  
9 our activities, and what some of our next steps are  
10 in the next few months.

11 So as of October 1st, the Office of  
12 Program Development and Research in Social Security  
13 established a new unit dedicated to OIS development.  
14 The Occupational Information Development Project  
15 Team has become the Office of Vocational Resources  
16 Development. So you will hear us referring to OVRD,  
17 perhaps, a little more frequently.

18 OVRD is charged with directing and  
19 conducting research and development of SSA's  
20 Occupational Information System. It consists of two  
21 branches. One dedicated to the research design and  
22 development, scientific standards, testing, data

1 collection, and data analysis. When I say data  
2 collection I don't mean that literally we're going  
3 to have all of the individuals that might be  
4 necessary to gather the data, but rather that we  
5 have oversight of that activity when it takes place.  
6 The other branch is dedicated to program integration  
7 to ensure that the OIS is developed in a way that  
8 meets SSA's legal program and operational needs.

9           Provide a little bit of update on our  
10 Occupational Medical Vocational study. Again, the  
11 objective of that study -- we presented the early  
12 results of -- on the initial review in September.  
13 It's basically to identify the primary occupational  
14 functional and vocational characteristics of Title  
15 II and Title 16 disability applicants whose claims  
16 were approved or denied at steps four or five of the  
17 sequential evaluation process. And those decisions  
18 having been made at either the initial or hearings  
19 level.

20           We have completed the reviews of initial  
21 level cases at the end of July, which, of course,  
22 you all are already aware of. We presented those

1 highlights to the Panel late in August. We call it  
2 a September meeting, since it was almost September  
3 when we met.

4           Also, we have completed the quality  
5 reviews of the initial level cases. We're  
6 developing -- we have developed a hearings level  
7 data collection instrument a bit different from the  
8 initial level data collection instrument, and the  
9 protocol methods are a little bit different, because  
10 we had to ask reviewers questions in a different way  
11 to get at some of the information as it's presented  
12 in the appellate files. We are going to begin  
13 pretesting of that data collection instrument later  
14 in December, and we hope to begin reviewing those  
15 cases in January.

16           Another activity that we have had under  
17 way -- some of you have been aware of for a while --  
18 is we have been examining or investigating the types  
19 of occupational classification systems that exist  
20 internationally. What we have done in beginning to  
21 develop our overall comprehensive plan is to  
22 recognize that it will be very helpful for us if we

1 also combine into that study information about any  
2 national occupational classification system. Not so  
3 much because we are needing data, but because the  
4 actual methods of this classification may be of  
5 value to us, certainly in terms of the design  
6 decisions that may have gone into them.

7           So what we are planning to do is to  
8 combine the international investigation with work  
9 that SSA has conducted over the last few years  
10 either on its own or with a contractor to examine  
11 other classification systems, and as well we're  
12 going to look at other classification systems that  
13 exist within the federal government, such as those  
14 in the Department of Defense, even in the Office of  
15 Personnel Management that may be very helpful to us  
16 to determine, based on the purposes of those  
17 classification systems. They may very well have had  
18 to make design decisions that may be of value to the  
19 types of design decisions that we need to make. And  
20 we also want to explore what methods they have used.

21           So another area -- sorry, I'm having  
22 trouble with my computer here.

1 All right. So one of the things that I  
2 think would be very interesting for us, as Mary  
3 mentioned, we will be hearing from the researchers  
4 from the National Institutes of Health, as well as  
5 Boston University. They are working with the Office  
6 of Disability Programs at Social Security; and I  
7 think that that presentation will be very  
8 interesting for us.

9 Our staff has been meeting with the Office  
10 of Disability Programs regarding the work that NIH  
11 and Boston University are doing. Largely, we are  
12 very interested in their methodology at this stage.  
13 So we have also begun conversations with NIH and  
14 Boston University. One of the things that I think  
15 is going to be of interest for us, our collaboration  
16 at this point consist of sharing information  
17 regarding the methods that NIH and BU applied to  
18 identify the content from various sources and to  
19 develop items for their questionnaires, which they  
20 will be describing.

21 The projects are separate within Social  
22 Security, and they are not dependent on each other.

1 Also, they are quite different in scope. ODP's  
2 project, or the Office of Disability Programs'  
3 project with NIH and Boston University is  
4 exploratory, investigating ways in which we can  
5 obtain in a more effective manner better information  
6 from claimants and medical sources regarding the  
7 claimant's function. And obviously, as you all  
8 know, the OIS development has more immediate or  
9 applied mission and focus that is aimed at replacing  
10 a data source that SSA now uses.

11           However, SSA is aware of the need to  
12 provide the adjudicator with better functional  
13 information about the claimant on one hand, and  
14 better information about the advanced support on the  
15 other. Adjudicators must be able to associate the  
16 information we obtain about the claimant's function  
17 with information about work. Working on ways to  
18 provide adjudicators with better information at both  
19 the front end and back end is the subject matter  
20 nexus of these two projects. And as I mentioned  
21 before, OVRD is interested in the methods of ODP's  
22 exploratory work within NIH.

1           We also brought back together the OISD  
2 development workgroup. The workgroup is -- at this  
3 point has been briefed on the status of the project,  
4 the new organizational layout, and also discussing  
5 future activities of the workgroup, which includes  
6 establishing a formal charter. So as the workgroup  
7 is meeting in December, they will be working on  
8 that.

9           The other aspect or other thing that our  
10 staff has been working on since September is the OIS  
11 Research and Development Plan. And we have  
12 completed an initial draft of that Plan. When I say  
13 that it's comprehensive, I'm going to describe some  
14 of the components that we're anticipating having in  
15 that Plan.

16           We -- so, actually, the Plan right now is  
17 currently in review in our office, and will go into  
18 our associate commissioner as soon as I complete my  
19 review of it. We also continue to conduct work that  
20 was underway before we began the Plan.

21           Some examples of components that we intend  
22 to include in the OIS R & D Plan are certainly scope

1 of the research and development for OIS, as well a  
2 business process for all of the OIS activities. And  
3 an entire section naturally devoted to research  
4 design, which should include for each of the major  
5 activities, goals, and objectives of those key  
6 activities, research questions, and evaluation  
7 criteria.

8           The actual tasks and activities that would  
9 need to be accomplished in order to get at those  
10 research questions and by what methods we anticipate  
11 doing that, and perhaps, in some cases identifying,  
12 perhaps, more than one series of methods or options  
13 that need to be considered.

14           Also, any dependencies that we are aware  
15 of at this time, relevant sources and literature  
16 that we have examined or believe that we need to  
17 examine. Also, what resources we believe are needed  
18 in terms of is there certain expertise that might be  
19 needed; or even, you know, down to the level of what  
20 kind of software might be, you know, important in a  
21 particular investigation.

22           Also, I think it's important for us to

1 identify any risks or threats to validity that's at  
2 issue; and we're also planning to include  
3 communication strategy, time lines, information  
4 about budget, and other things that are necessary  
5 for an overall plan. So we're looking forward to  
6 being able to produce a draft of that.

7 We're also working right now on the  
8 content model and we are drafting -- sorry, I'm  
9 really having trouble here with my --

10 So we are drafting methodology. At this  
11 stage we are in the preliminary development phase  
12 under our business process. We are engaged in  
13 information gathering and laying out a conceptual  
14 plan for the methodology to conduct content model  
15 development.

16 We are also in the phase of initial  
17 consultation, and that basically involves a  
18 discussion within Social Security on certain --  
19 among members of my team; and, you know, with others  
20 who may have information that can be very helpful in  
21 helping us develop the study design, which is the  
22 second phase under the business process. So at this

1 stage we do have research questions developed. We  
2 certainly have identified the goals. We are looking  
3 forward to completing that, and putting more meat on  
4 the bones of the methodology there.

5 Another thing that we are aware of is the  
6 need to, you know, be sure that when we're setting  
7 up the rules and ways in which we determine what  
8 information is included in the content model for  
9 testing purposes that we have a way of checking back  
10 to see -- you know, in terms of interregalia  
11 agreements, whether people using the same rules come  
12 up with the same types of information or types of  
13 data element. And also to look at areas of  
14 disagreement, and why, in fact, there may have been  
15 disagreement.

16 So we have really heard a number of the  
17 questions and comments that the Panel gave us and  
18 others as well about the content model. So again,  
19 something we're looking forward to producing a draft  
20 of shortly.

21 Another area that we are working on is --  
22 and this -- we're working on a number of standards.

1 One involves legal standards. Another screen here  
2 I'm going to get to shortly about scientific  
3 standards.

4 One of the major activities that our  
5 research design identifies is OIS requirements. And  
6 under that, one of the first activities will be to  
7 establish legal standards, and to articulate what  
8 they are. And in doing so also examine scientific  
9 standards. Right now OVRD is working with Social  
10 Security's Office of General Counsel. Plan to  
11 consult with them next week. In fact, begin our  
12 consultation with them on legal framework that is  
13 needed to support the OIS. Also, initial research  
14 that has been -- we are providing them with initial  
15 investigations that we have done -- what we think  
16 are key legal issues and discuss with them what  
17 things they believe we should be focused on given  
18 the scientific standards.

19 We also have underway right now what we're  
20 calling a BPA, a blanket purchase agreement. It's  
21 basically a contract with ICF international. And  
22 I'm just going to say this because we -- our team

1 frequently confuses the -- people confuse it when  
2 they hear it. There is the -- you will be hearing  
3 later from NIH and Boston University about the ICF,  
4 which is the international classification function.  
5 ICF International, however, is a contractor, and  
6 they are working with us on this BPA to establish  
7 for us a business process for recruiting, training,  
8 and certifying job analysts.

9           We have awarded that contract in  
10 September, and ICF is now conducting focus groups  
11 and literature reviews to identify and benchmark a  
12 variety of job analyses methodologies across various  
13 disciplines. So what is accomplished or done  
14 currently in the area of voc rehab, perhaps,  
15 insurance companies, perhaps -- you know, what else  
16 is being done in terms of job analyses in the  
17 industrial occupational psychology field. So they  
18 will be using that information to document the  
19 current trends also in terms of recruitment,  
20 training, and certification of these individuals who  
21 conduct job analyses.

22           We plan to have a draft report on the

1 training and certification recruitment due to us in  
2 April of 2011; and a draft report on job analyses  
3 methodologies, which will be due to us in June of  
4 2011.

5           We are also, as I mentioned earlier, part  
6 of our plan is a communications strategy. So we are  
7 working on a detailed communications plan that will  
8 be in the overall comprehensive plan. We're working  
9 with a number of offices within Social Security to  
10 define and identify future web based requirements  
11 for us so that we can establish some online  
12 communities with a variety of professional  
13 communities that our stakeholders have interest in  
14 the work we're doing, as well as researchers. And  
15 also just to have a way for us to communicate with  
16 users.

17           So we're taking steps to explore the  
18 requirements of this type of a web based approach,  
19 you know, interactive, and also allows for Panel and  
20 SSA staff to have placed -- post documents and  
21 information for each other.

22           Here is the screen on the scientific

1 standards. We have developed a method for locating  
2 the relevant scientific standards that can be  
3 applied to various OIS project activities with the  
4 primary goal of establishing requirements for the  
5 Occupational Information System that would lead to  
6 scientific defensibility. We want to develop  
7 prototype instruments that may be very useful to the  
8 collection of the occupational information.

9           Also, reviewing the OIS research and  
10 design plan that's underway to identify both major  
11 and lesser tasks that would require scientific  
12 guidance and try to connect when, in fact, those  
13 tasks might be requiring certain types of standards.  
14 So we want to be able to identify what those  
15 standards are as a part of the criteria.

16           The next step that we have in 2011, as I  
17 mentioned, is to complete the OIS research and  
18 design plan, to develop the job analyst recruitment  
19 training and certification plans; and we want to be  
20 able to prepare and implement a study design for  
21 content model.

22           We're also examining the methods for other

1 OI -- Occupational Information System, as I  
2 explained earlier. And we intend to follow-up with  
3 the Census Bureau. This is something that was left  
4 over from mid-summer when Dr. Allan Hunt and I, and  
5 several staff went to meet with the Census Bureau to  
6 examine the type of data that they collect in the  
7 American Community Survey. To see to what extent  
8 that information people report about their work  
9 might be something that we could use to help us  
10 identify certainly kinds of jobs in the economy.  
11 That's it.

12 DR. BARROS-BAILEY: Thank you, Sylvia.

13 I would like to open it up to the Panel to  
14 see if there are any questions. Shanan.

15 DR. GIBSON: I don't have a question. I  
16 do have a comment. I just want to say that I was  
17 gratified to hear, actually, about the development  
18 of the legal standards working paper. I think for a  
19 long time we have struggled with the question, what  
20 are the legal program and technical issues that have  
21 to be identified at the outset, and that has to also  
22 drive the project that you discussed. So I'm very

1 gratified to see that included and know that  
2 progress has happened there. I look forward to  
3 seeing it.

4 DR. BARROS-BAILEY: Okay. Any other  
5 questions? Any other comments?

6 Sylvia, thank you for a very comprehensive  
7 report. I appreciate that.

8 Next, I would like to ask the Chair of Job  
9 Analyst Ad Hoc Group to present on their findings.

10 Just to give a little bit of background,  
11 as many people know who may have been following this  
12 Panel, we're a Panel that is very versed in many  
13 ways; and one of the things that we learned very  
14 early on is that we might be using the same word to  
15 convey different concepts. And one of the things  
16 about the Job Analyst Ad Hoc Group is that it's  
17 composed of three members. One is a physical  
18 therapist, one is an industrial occupational  
19 psychologist, and the other one is voc rehab  
20 background, rehab psychology background; all who  
21 have experience in job analysis in terms of  
22 different methodologies.

1           So I asked the group to take on an  
2 experiential exercise in terms of actually doing a  
3 job analysis to see what were some lessons learned  
4 that might be helpful in our advice and  
5 recommendations to SSA as it looks at data it  
6 collects through job analysts. So at this point I  
7 would like to turn the meeting over to Deb Lechner  
8 who will be giving a summary of their findings.

9           MS. LECHNER: Good morning, and I would  
10 like to thank everyone for giving us the opportunity  
11 to do this demonstration project, because I thought  
12 it was very instructive. I thought we all learned a  
13 lot, and it was an enjoyable process. I would like  
14 to thank Shanan and Robert for participating with me  
15 in this project and providing valuable information.

16           DR. BARROS-BAILEY: Can I interrupt real  
17 quickly. Your report and these Power Points slides  
18 are in the three ring binder under tab number two,  
19 the third red section back if anybody would like to  
20 follow along.

21           MS. LECHNER: Thank you, Mary.

22           Just to give you an overview of what we

1 are going to talk about this morning to begin  
2 talking about the project overview, the  
3 administrative set-up that went into arranging these  
4 job analyses. We included that information because  
5 we think it's instructive into the type of set up  
6 that will have to occur as the Social Security  
7 Administration endeavors to perform job analyses.

8           We used a couple of different protocols in  
9 this project that we will both -- we will all three  
10 explain our processes and what we did; and then we  
11 will compare and contrast these two approaches. And  
12 then also compare these two approaches to what we  
13 believe are Social Security needs, and then provide  
14 a quick summary.

15           The overall purpose of the project was to  
16 demonstrate two examples of job analysis protocol.  
17 And I think it's very important that we do make a  
18 bit of a disclaimer at this point about what was not  
19 the purpose of the project; and it was in no way to  
20 be construed as any kind of formal research project.  
21 This was just a demonstration project. And we're  
22 not advocating the use of either of those protocols

1 for Social Security Administration purposes. They  
2 were just merely used as a -- examples of  
3 convenience.

4 A protocol that -- I used a protocol that  
5 I'm familiar with. Shanan and Bob used a different  
6 protocol that Bob has had some input into developing  
7 in the past. So we just want to make those two  
8 important disclaimers before we start.

9 We had three specific goals under that  
10 overall purpose. One was to illustrate the  
11 protocols that are performed by three different  
12 types of professionals, as Mary mentioned, physical  
13 therapy, industrial and organizational  
14 psychologists, and vocational rehab professionals.  
15 And again, this is not to suggest that job analysis  
16 is only performed or should be only performed by  
17 these professionals. That just happens to be our  
18 background.

19 We compared and contrasted those  
20 methodologies, approaches and the reports that they  
21 generate; and then we compared them to SSA's  
22 expected data collection needs.

1           The process that I used was -- it's called  
2 quantitative job demands analysis or abbreviated  
3 QJDA. It's a process that I developed for work that  
4 I do in the field of job analysis; and it's  
5 primarily used to perform job analysis for the  
6 purpose of developing specific post-offer/pre-hire  
7 and return-to-work functional testing. So I'm using  
8 the results of the job analysis typically to develop  
9 functional testing. And it's focused exclusively on  
10 the physical, the sensory, and environmental demands  
11 of work.

12           The process that Shanan and Bob used was  
13 developed by King County, and the purpose of it is  
14 to provide a basic understanding of job requirements  
15 and job -- and to perform job matching, and to  
16 provide information for job accommodation. It has a  
17 more broad focus that includes physical, cognitive,  
18 behavioral, and sensory demands that are often  
19 used -- and the information from that type of  
20 analysis is often used in worker reassignment.

21           The administrative set up that Social  
22 Security performed -- and we were very grateful for

1 all the work that went into this -- they arranged --  
2 they assumed the primary responsibility for making  
3 all the arrangements. They arranged for the three  
4 of us to visit local grocery store chains to perform  
5 an analysis of the cashier.

6           The staff reached out to various  
7 stakeholders in the Boston area for assistance in  
8 identifying these grocery store chains. And our  
9 contact held conversations with the store executives  
10 explaining the process, introducing to them the  
11 goals of what we were trying to achieve; and they  
12 also requested job descriptions.

13           As a starting point the three of us all  
14 used whatever existing job analyses there are as a  
15 starting point for our analysis. And again, we  
16 don't want to imply that this would be the process,  
17 the administrative process that would be used by  
18 Social Security Administration. We fully expect  
19 that there will be a very formal sampling  
20 methodology that is used when -- when SSA goes out  
21 to collect data; but this was just, you know, a  
22 process that we used for convenience sake to get

1 this little demonstration project done.

2           The process -- the QJDA process begins  
3 with reviewing existing job descriptions; and from  
4 that review developing a preliminary task list.  
5 Once I was on site I reviewed that preliminary list  
6 with input from supervisors and incumbent employees  
7 that were actually doing the job. And then revised  
8 that task list according to their input.

9           And then I proceeded to videotape and  
10 measure -- videotape all the tasks that were  
11 identified, or all the job functions that were  
12 identified, and measured the maximum forces exerted  
13 by the employees. I also measured distances and  
14 heights that these manual material handling demands  
15 occurred. And then we -- I also documented the  
16 environmental conditions, personal protective  
17 equipment, tools used and operated as well.

18           And then once off site, I reviewed the  
19 videotape and the measures, and entered all of that  
20 into the generated software. And then the software  
21 calculates the frequency and duration of each job  
22 task, and uses that data to calculate the percent of

1 day each of the tasks are performed.

2           Then I reviewed each videotape task to  
3 determine the percent of each task that is spent in  
4 each of the physical demands; and then the  
5 demands -- demand percent from all the tasks are  
6 combined to calculate the total percent of the day  
7 spent of the jobs in each of the physical demands.

8           The report that was created includes  
9 percent of day that job task was performed. It also  
10 documents an overall level of work that's defined by  
11 the DOT as either sedentary, light, medium, or  
12 heavy. And that, again, is not to imply that this  
13 will be the calculation system going forward; but we  
14 were all operating on the current DOT classification  
15 system.

16           We documented environmental conditions,  
17 personal protective equipment; percent of the job  
18 spent in each physical demand, the heaviest weight  
19 handled, and any manual finger dexterity requirement  
20 and coordination requirement. And I will turn it  
21 over to Bob and Shanan to describe the King County  
22 process.

1 DR. SCHRETLEN: Before you go on, do you  
2 want us to hold questions and comments until the  
3 end? How do you want to do that?

4 MS. LECHNER: What's your preference,  
5 Mary?

6 DR. BARROS-BAILEY: Let's go ahead and  
7 continue with the report and hold them until the  
8 end.

9 DR. GIBSON: When choosing what  
10 methodology I was going to utilize for doing this  
11 process, I always say that the nature of the job  
12 helps identify the type of job analysis or job  
13 analyst you will be using. Given that my typical  
14 reason for doing job analyses is to facilitate human  
15 resources functions within an organization, such as  
16 selection and training, I looked at existing  
17 instruments that were available for what I would  
18 normally use. And one of the instruments I had been  
19 introduced to was the King County instrument. I had  
20 never utilized it before. But what struck me about  
21 it was that it was composed of what I would  
22 typically call generalized work behaviors. And

1 since we have talked a lot about generalized work  
2 behaviors, it seem to be a natural form to adopt for  
3 this purpose. So that's how I came to use this  
4 form.

5           When we examine the King County forms that  
6 are available, it actually turned out that there  
7 were several King County job analytic forms that  
8 they have. There is a physical form. There is what  
9 they call the behavioral and cognitive forms. Then  
10 there were two addendums, which went into  
11 significantly more detail. There was a hand usage  
12 addendum, and a sensory addendum.

13           So I took all four of the forms and  
14 combined them in one very long analytic form. I  
15 maintained the exact scales and measures that King  
16 County utilizes, and we didn't move from that at  
17 all. We kept that form as theirs. Each form also  
18 included environmental factors and contextual  
19 factors; and we included those as well, as part of  
20 the analytic process. So that's where the form came  
21 to be that both Bob and I ultimately utilized.

22           In terms of the process I presumed -- I

1 did it just like I normally would if I was working  
2 with an organization. I had a contact name of the  
3 human resources manager for the organization; and I  
4 contacted this individual and requested a copy of  
5 the job description, just as Deborah did; and  
6 received back information that actually there was no  
7 existing job description for the job of cashier.

8           There was, however, a list of seven or  
9 eight general required physical dimensions that they  
10 use for the labor contract negotiations. That's all  
11 I had to go on from the actual organization at the  
12 outset. So that's what I began with.

13           As I would do before I went on site  
14 anywhere, I did go online and do some research. I  
15 looked at job postings and job descriptions for  
16 cashier across the web site, monster.com, anywhere I  
17 could find one to help key me into what I would be  
18 looking at when I got on site.

19           So I went on site. I did not have the  
20 advantage, as I said, of an on site human resources  
21 person, nor did I have the advantage of an on site  
22 floor manager. I point this out because there are

1 great differences in how businesses runs the job of  
2 cashier. And all three of us experienced something  
3 very different.

4 I heard somebody say this morning I had  
5 the classic 23 year old young man who was probably a  
6 cashier six months before, and because he showed up  
7 for work everyday on time now he was my floor  
8 manager. And he said, hi, nice to meet you. Here  
9 is your cashier. I have better things to do. I was  
10 told to go stand there.

11 With me was a SSA staff person. Claire  
12 actually did the exact same form I did, but worked  
13 with another cashier with the idea being this would  
14 be a model of multiple analysts on site, both  
15 conducting an analysis so that later you can come  
16 together and confirm, and find where you get  
17 discrepancies and consistencies in the data you  
18 collected at this site.

19 So I stood with the cashier. I actually  
20 literally stood behind the cashier -- I probably got  
21 in her elbow room -- as she did her job for better  
22 than an hour.

1           I watched. I marked. I filled out the  
2 form. And as I progressed through the form, I  
3 noticed that there were several things that I was  
4 not seeing her do, and so I couldn't answer and  
5 complete the form adequately. So I conferred with  
6 her, did you do this? Have you done that? Would  
7 you do this? How would you do this? When would  
8 this come up? Because, again, I'm dealing with a  
9 generalized work behavior analysis instrument, which  
10 wouldn't necessarily use the exact language she  
11 would in doing her job. That worked out fairly well  
12 for me.

13           There were things that I encountered,  
14 because I was there for an extended length of time  
15 that only happened once. If I hadn't been there at  
16 the right moment at the right time as an analyst I  
17 would have missed it. The example I have in this  
18 case was, you know, traveling and carrying weights  
19 at the same time. Walking some distance, carrying.  
20 For 90 percent of the time we were together -- 99  
21 percent of the time she was confined to a very small  
22 space behind the cash register. And then one person

1 came through her line with vouchers to receive  
2 infant formula.

3           Infant formula is kept in a secure, locked  
4 area behind the customer service desk. Then she had  
5 to leave, travel by foot, go into the storage room  
6 and came out carrying a case, which was  
7 significantly more heavy than anything I had seen  
8 her carrying, and walking and traveling. So I am  
9 just trying to emphasize that part of the analytic  
10 process you have to allow for these things that  
11 happen infrequently, but which are certainly  
12 documentable parts of the job.

13           So for anything I didn't observe I talked  
14 with them. At the conclusion I went through the  
15 form with her, asked her if she actually agreed with  
16 my ratings, and discussed it. One of the best  
17 things about finding -- and I find when you work  
18 with people, is to understand why they are doing  
19 this. And I, unlike Deborah, didn't feel confident  
20 in believing that the store manager had explained  
21 the reason I was there, and what I was doing, and  
22 why I was working with her. So I made certain at

1 the outset that she understood, that there was  
2 nothing secret in my ratings, and tried to be open.

3 In an idea situation Claire and I then  
4 would have gotten together and actually compared our  
5 results; but, unfortunately, we never did that. We  
6 could have looked for consistencies,  
7 inconsistencies; and, perhaps, completed our final  
8 report and list some things that we saw that were  
9 different. And there were differences. My person  
10 was at a speedy check-out; and she did her own  
11 bagging. And her person wasn't, and had a bagger.  
12 That's the type of job title variability, which  
13 could be very common and is relevant in this type of  
14 job analysis. So that was my experience.

15 MS. LECHNER: Thanks, Shanan.

16 Bob, can you give a little bit about your  
17 process.

18 DR. FRASER: Yes, I managed it from Shanan  
19 putting several of these forms together. This was  
20 also kind of enjoyable for me, because I had some  
21 input into the cognitive, behavioral requirements  
22 many years ago; and I never knew what happened until

1 I was focusing on the form.

2 This store had a very sophisticated job  
3 description, which is a great, you know, platform  
4 for beginning things; and it was also current.

5 There is a lot of jobs description here that were  
6 not current. She confirmed that this was current.  
7 That HR was on this every year. That was great.

8 I also had a nice sit-down review of the  
9 position with the manager who was very articulate, a  
10 college grad that was there also. I believe she is  
11 in graduate school. She was a really kind of on the  
12 spot, very clear, decisive in her responses across  
13 the range of physical, as well as  
14 cognitive-behavioral requirements.

15 Then I had time, maybe half hour, 45  
16 minutes sitting down with the store manager. Then I  
17 had time to observe the cashier. And I was just  
18 across the aisles from her, not behind her; but just  
19 across the aisle from her. And was able to observe  
20 her for an hour or so. And then I also looked for  
21 discrepancies between what I saw and the store  
22 manager's input.

1           And then when that was over it was over, I  
2 was able to go through the ratings and confirm them  
3 with the cashier/checker; and then ask if there is  
4 things that I'm missing. And she pointed out  
5 several things, which would not certainly be  
6 essential functions of the job. But once a day you  
7 have to go up on the elevator on a pallet and pick  
8 up bound, heavier bags that might weigh up to 40 to  
9 50 pounds, put them on a pallet, push it on the  
10 elevator downstairs, and then stack these bound bags  
11 behind the counter.

12           So again, maybe under four minutes of  
13 actual lifting, probably lifting on, lifting off;  
14 but in a nonessential function of the job kicks the  
15 job -- those requirements were a medium level of  
16 lifting.

17           She also pointed out that there was some  
18 crouching involved. She come around the corner if  
19 it was a an elderly person or person with a  
20 disability who was having trouble, kind of arranging  
21 things on the cart at a low level. So some minor  
22 points like that.

1           But I think that between the manager,  
2           which is a definite benefit for me, and the job  
3           description, and the input from the cashier/checker,  
4           it was good information and I enjoyed the process  
5           very much.

6           DR. GIBSON: One more thing I think I will  
7           point out. Since this was on a form I hadn't  
8           utilized before, and wasn't a form I would  
9           necessarily use for my own purposes, one thing that  
10          was important for me was actually training for  
11          myself on the verbiage on the form. I'm not a  
12          physical therapist or an occupational therapist.  
13          So, as I said, there was a whole addendum on hand  
14          usage. So it was necessary for me and Claire to sit  
15          down before we went on site with Mary and Bob and  
16          Deb and say, please explain so I understand the  
17          differences in these terminologies so that I can  
18          adequately assess them.

19                 I think that's just indicative of  
20          something we need to be cognizant of, and SSA needs  
21          to be cognizant of. As they plan their training for  
22          their job analysts, there is going to be terminology

1 that is new and distinct, and that everybody needs  
2 to have the same working definition of these  
3 movement categories and other aspects of it. So  
4 even as a job analysts there was training involved  
5 for me prior to doing this.

6 MS. LECHNER: Thank you, Bob and Shanan.

7 One thing that we did not include on the  
8 slides was the approximate time frame that it took.  
9 All three of us spent one and a half to two hours on  
10 site. Then all three of us spent roughly couple  
11 hours preparing our report. So just to give you an  
12 idea of the time frame; and this is a fairly  
13 repetitive job.

14 And a comment that I want to add to Shanan  
15 and Bob's comments about these things that occur  
16 irregularly. I ran into that situation as well, and  
17 ended up having the cashier simulate a couple of  
18 things for me that she was not doing in the course  
19 of my regular -- you know, her regular job, as it  
20 was being performed while I was there right that  
21 minute.

22 So I had her simulate some things that she

1 had to do in terms of restocking some of the  
2 supplies. So you are going -- you know, typically  
3 you do run into things that are not being performed  
4 the day or the hours that you are on site. And some  
5 of these things you are going to have to describe or  
6 explain or simulate it.

7 We are going to take a break and allow the  
8 Commissioner to come in and speak to us; and then we  
9 will resume our presentation at the conclusion.

10 Thank you.

11 DR. BARROS-BAILEY: Thank you. Let's go  
12 ahead and take maybe a five minute break, and resume  
13 with the Commissioner, who is here. As I indicated  
14 at the start of the meeting, the Commissioner has to  
15 leave a little bit earlier. So we will be finishing  
16 this presentation after the Commissioner leaves.  
17 Although, if you are ready to go now, we can take a  
18 break after.

19 COMMISSIONER ASTRUE: It's your choice.  
20 Whatever you want to do.

21 DR. BARROS-BAILEY: Let's go ahead. We  
22 just started not that long ago. Sorry about that.

1 Thank you, Commissioner, for coming to meet with us  
2 today.

3 As I said at the start of the meeting,  
4 this is a pretty important meeting for us in terms  
5 of significance. It's been two years since the  
6 Panel was chartered. And I would like to say on  
7 occasion I have referred back to the Commissioner's  
8 words to us at the inaugural meeting. I wasn't able  
9 to be there when he swore the Panel in at the  
10 beginning of the meeting.

11 And there are some words that he had in  
12 his opening comments to us that I think have kind of  
13 resonated with us over the last two years. And he  
14 says -- he said that OIS would take expertise,  
15 persistence, and creativity to replace the important  
16 part of SSA's process; and to do it in a way that is  
17 more thoughtful, will help SSA make more accurate  
18 decisions, faster decisions, and be as user friendly  
19 for SSA employees and for the public to use as  
20 possible.

21 Over the last two years, there has been  
22 quite a bit of movement within SSA with this

1 project. And we recognize this is not a program  
2 improvement project, that it is a mandatory project  
3 for the disability programs.

4 In developing an OIS, or an occupational  
5 database to meet SSA's needs, there are three  
6 criteria identified by SSA that we constantly heard  
7 about that this has never been done ever. Ever.

8 Those three criteria are that the  
9 databases are representative of the national  
10 economy -- the work of the national economy; that  
11 it's based on physical and mental-cognitive, human  
12 function; and that it meets SSA's burden of proof;  
13 that is that it's forensically defensible.

14 Although, I list that third criteria as  
15 last, what underlies the defensibility, such as the  
16 scientific rigor; on behalf of the Panel we are  
17 unanimous in our belief that ensuring scientific  
18 rigor means making sure that the skill set process  
19 and plans are in place to deliver that essential  
20 criteria.

21 We understand that the DOT is not  
22 defensible, that O\*Net is neither usable nor

1 defensible for the same or other reasons; and  
2 neither system was created for SSA. There is no  
3 other system out there to meet SSA's needs. There  
4 was a report that came out from the Office of the  
5 Inspector General last week that reiterated these  
6 themes.

7           Again, we provided summary of the public  
8 comment report yesterday to the Commissioner of the  
9 nine months of collection of individual comments.  
10 The public comment responses called for high quality  
11 data. Data that was empirically established, valid,  
12 reproducible. I think Sylvia in her Project  
13 Director's report gave a really good overview of  
14 SSA's efforts going forward to meet those needs.

15           A variety of terminology from the public  
16 comment, obviously, assumes that in order for that  
17 outcome to happen with the database, the requisite  
18 framework needs to be in place.

19           So I just wanted to reemphasize three  
20 areas that we discussed that we, as a Panel that is  
21 made up of practitioners and scientists, believe are  
22 essential. And sometimes it's hard to get a Panel

1 like this to this place, but we are unanimous in  
2 this.

3           And we were happy to hear about the  
4 development of the Office of Vocational Resources  
5 Development. This is huge in terms of SSA's  
6 commitment to this project. It signals that  
7 commitment. The structure is in place, and we  
8 believe that the hiring of a lead scientist would  
9 compliment that skill set; and would be beneficial  
10 not just for research and development, but in the  
11 long term maintenance of the OIS.

12           We also believe that -- a business  
13 process. We had a very good meeting yesterday in  
14 terms of an introduction to such a process that  
15 would not only just lay the foundation within which  
16 programmatic and scientific staff within OVRD -- but  
17 also within the Agency -- could understand what  
18 happens when, and help the Panel now and after we  
19 are gone anybody within the Agency could understand  
20 what's going on. But in -- such a process would  
21 speed things up in the long term.

22           The last thing that we are -- that we

1 believe are essential to this process is the plan  
2 general recommendation number eight in terms of the  
3 overarching plan for this. Spending a little bit of  
4 time and resources in these three areas in the  
5 short-term will ultimately speed things up in the  
6 long term. And also, we believe, underlie the  
7 scientific rigor of this project.

8           On behalf of the Panel, I would like to  
9 state that we are committed to the vision and to the  
10 charter outlined two years ago. I would like to  
11 personally thank you for the opportunity to work  
12 with this group of very distinguished individuals.  
13 And when I say "this group," I'm talking about not  
14 just the Panel, but also SSA. This has been an  
15 incredible experience. I would like to turn over  
16 the floor to you.

17           COMMISSIONER ASTRUE: Thank you, Mary.

18           Let me start with some thanks myself.  
19 First of all, thank you for accommodating my  
20 schedule. I have a call to my oversight board at  
21 noon, so I do appreciate the flexibility. Thank you  
22 all for the meeting yesterday and for the gift of

1 the original copy of the 1939 Dictionary of  
2 Occupational Titles, which I did take a peek at.

3           You know, it's an interesting thing. They  
4 must have started this right about the same time  
5 that the Social Security Act was passed. We're  
6 celebrating our 75<sup>th</sup> anniversary this year.

7           And from 1935, 1939 it actually is an  
8 extraordinary document representing an enormous  
9 amount of work and the best thinking of the time;  
10 but things have changed. And I think that what  
11 you're doing to help us move from the best thinking  
12 of 1939 to the best thinking of 2010 is  
13 extraordinarily important for the Agency; and I  
14 think, you know, perhaps, for -- more for some of  
15 the others who are watching this project.

16           One of the things I would say is, don't  
17 look at it just in isolation. That this is part of  
18 a broader effort to overhaul our disability process  
19 and have it be across the board entirely state of  
20 the art. I think a lot of people will recall in  
21 2007 the backlogs, the quality of the process  
22 overall was under assault.

1           It's actually remarkable that in some ways  
2 that this was part of the process that was  
3 relatively ignored; but we have tried to look at it  
4 from top to bottom and say going forward over the  
5 long haul, where do we want to be? What do we want  
6 to look like? And it's a little difficult for me on  
7 certain days because a lot of the things that we're  
8 doing that are so important I will never actually  
9 see the benefit of those. My gift to my successor,  
10 and my successor's successors. But I think if you  
11 care about an institution, that's what we do.

12           So we're doing it in the IT area where we  
13 have been operating for far too long with 54  
14 separate Cobalt based systems. Many of which have  
15 common spine involvement adapting. So every time we  
16 want to make improvement for the public, it's a very  
17 long, slow difficult process, because we have to  
18 find Cobalt programmers to modify 54 separate  
19 systems.

20           So the good news is that we are moving  
21 slowly, because it is the federal government. We  
22 are moving to a common state of the art IT system.

1 I think we're dealing with the usual bid protest  
2 now; but we're hoping to have the beta for that up,  
3 I think probably late summer is the reasonable  
4 expectation of next year. It will probably take us  
5 a couple years to get that up and running; but I  
6 think that's an important piece of it.

7 A more visible piece was the medical part  
8 of evaluations. So four years ago, a substantial  
9 number of our regulations hadn't been updated since  
10 the 1970's to 1980's. So for instance, we have  
11 known for 15 years that, you know, contrary to what  
12 my mother always warned me, that being type A,  
13 liking spicy food caused ulcers, that they are  
14 actually caused by bacteria easily treated by  
15 antibiotics. We went 15 years not recognizing that,  
16 and many, many similar things in our Regulations.

17 It is just critically important that when  
18 we're making these decisions that are so important  
19 to individuals, not only -- in most cases not so  
20 much for the cash benefit, which is often important;  
21 but much more so the Gateway to Medicare and  
22 Medicaid, and medical treatment for the disability.

1 It's important to the individuals. It's also a big  
2 financial commitment by the taxpayers to these  
3 people. It's important that we try to make the  
4 right decisions as often as we can, and as quickly  
5 as we can; and having state of the art medical  
6 information is important.

7 I think the most neglected part of the  
8 process is others are instrumental in being more  
9 salient as in the occupational part. And I think  
10 that we, in the Agency, have known that this was an  
11 issue for a long time. I think there was sort of a  
12 hope that there would be an update at some point.  
13 That the Department of Labor would all of a sudden  
14 have a revivable of interest, and all of a sudden we  
15 would have the instrument that we need. But at some  
16 point you have to say they officially gave it up in  
17 1991.

18 The last update of any size was 1979; and  
19 even in 1979, we were talking about marginal changes  
20 with a paradigm that really didn't fit a more modern  
21 economy. I remember my first experience with the  
22 DOT in 1983, and thinking in sort of a starky young

1 person's way how updated the document was then.

2           So from my vantage point it's been  
3 tremendously important to try and figure out how to  
4 do this right. It was interesting when I came in  
5 that seemed to be among outside groups a pretty  
6 common theme; and they could speak up, I think,  
7 usually expecting that we wouldn't actually do  
8 anything about it.

9           So it's been interesting as we have tried  
10 to move forward, and we have tried to reach out and  
11 get the very best advice we can from all quarters --  
12 and this Committee is the most important part of  
13 that process, but also reaching out to the  
14 Department of Labor, NIH, Census. We were  
15 discussing yesterday with the revival of the  
16 Administrative conference in the United States, they  
17 might also be able to help. National Academy of  
18 Sciences, Institute of Medicine.

19           I think that I speak not just for myself,  
20 but for all the senior people in the Agency, that  
21 we're very conscious that while we have substantial  
22 expertise in a lot of areas that relate to this

1 project, we're not under the illusion that we have  
2 the full knowledge base to make all the decisions.  
3 And it's important for the quality of document,  
4 important for the credibility of the document that  
5 this continue to be a very open process where we try  
6 to seek the very best thinking of wherever that may  
7 be.

8           So we're committed to doing that. And I  
9 think that some of the anxieties that have been  
10 expressed in the last year I do really think are  
11 misplaced. Because I think if you look where we  
12 are, I don't think any rational person could look at  
13 it and say, yeah, that's fine; you should just stick  
14 with that. I think anybody that looks at it says  
15 it -- should be saying that we need to embrace  
16 change. And I think that your efforts have already  
17 been extraordinarily helpful in that regard.

18           I think that for a number of the key  
19 policy makers in Washington, particularly in the  
20 Congress, I think that your 2009 recommendations and  
21 your Panel findings on the NAS review of O\*Net, I  
22 think those kind of things, I think, get people to

1 pay some attention, but not as close attention as  
2 others the assurance that, you know, this is -- this  
3 is the type of effort that we need to embark on.  
4 That we need -- that we can't rely on the old  
5 document. And there is no other easy solution  
6 that's out there. There is a little bit of facile  
7 discussion that, oh, you know, the Agency is making  
8 a horrible decision just not shifting to O\*Net. I  
9 think having a Panel such as yours has not only  
10 given us the independent opinion, but evaluated what  
11 others have said. I think it is tremendously  
12 important and has laid a lot of the framework for  
13 moving forward.

14           One of the things we discussed yesterday  
15 is I think that at this two year anniversary, there  
16 are starting to be a shift of priorities. I think  
17 we needed to go through a process for a while, think  
18 about conceptually what we needed to do, how to do  
19 it, what the options were. And I think the pull now  
20 is to actually getting on with the job, figuring out  
21 the important details of what the process should  
22 look like, how we continue to build a process that

1 continues to get the highest quality input; and also  
2 defines the task in an efficient way.

3           It would be nice if we could start using  
4 some of the new -- some of the material from the new  
5 instrument before the instrument is completed all  
6 together. And I also think that it's important for  
7 us in the Agency not to in subtle ways get bound by  
8 the old paradigm. You know, we work with it so  
9 long, it is so much a part of the architecture of  
10 how we think about this, that some time I think it's  
11 hard for us to look at it in a fair way and say, you  
12 know, there are other ways to doing it.

13           In particular, I think one of the enormous  
14 achievements of the original document was going  
15 through a lot of the detail of what was  
16 substantially a blue collar economy. Of course, for  
17 us when we first started the disability program in  
18 the 1950's it was really set up to deal with those  
19 type of injuries. So it was a fairly natural  
20 marriage between the original Title II disability  
21 program and this document.

22           But the economy has changed enormously. I

1 think that, you know, we look at most of the jobs  
2 that are in the economy today, and the whole  
3 taxonomy of the DOT just doesn't fit very well. We  
4 have to think about different ways of describing the  
5 jobs that are in the economy.

6           The other thing that's changed radically  
7 is our notion of disability generally in the country  
8 has changed and expanded. And even though we deal  
9 with a much more limited statutorily specific  
10 definition of disability in Title II and Title XVI,  
11 even within that narrower framework, the notion of  
12 who we're serving has changed very dramatically.  
13 We're serving children now. We see an increasing  
14 number of people with developmental or other  
15 intellectual limitations. A number of things  
16 that -- a number of conditions that were not  
17 considered disabling in 1957 are fairly common.  
18 Basically, it's more disability today.

19           So I think it's some -- tremendously  
20 important for the outside input to help us make sure  
21 that, in addition to getting state of the art  
22 information and evidence and data in the document,

1 that as we come up with a new general structure, a  
2 new way of thinking about this, that we're not bound  
3 by the old paradigm, because I think that would be  
4 very easy to do. I think that's one of the reasons  
5 why it's tremendously critical for us to continue to  
6 get outside support.

7           So I'm going to stop and leave a little  
8 room for questions. I would be derelict if I didn't  
9 thank you all for your service. It's been long.  
10 You have been very dedicated. This is a very hard  
11 project. And you know, it is certainly not that the  
12 compensation is high, the glamor is high. It's like  
13 a lot of Federal service, I think you have stuck  
14 with it, and have done a very nice job. I'm very  
15 appreciate for the sacrifices that this group has  
16 made.

17           DR. BARROS-BAILEY: Thank you,  
18 Commissioner, for your words.

19           I would like to maybe open it up to the  
20 Panel to see if anybody has any comments; any words.  
21 Allan.

22           DR. HUNT: Could you expand on your

1 statement about doing this in an efficient way, and  
2 give us a little bit better idea of how you see  
3 that?

4 COMMISSIONER ASTRUE: So what I would  
5 like -- I think what I'm suggesting -- it's not what  
6 I would call directive for an expectation, but I do  
7 expect from the point where we are now to when we  
8 say, okay, we're done, we have moved from creation  
9 to regular maintenance will be a very long time.  
10 I'm not knowledgeable enough to even give a good  
11 guess of how long it's going to be; but it's going  
12 to be a long time. And they will be sending me post  
13 cards to tell me how that's working out.

14 So one of the things I said is, you know,  
15 we do have a tendency, I think, like all federal  
16 agencies on these big projects, to think in a  
17 Manhattan Project style; and that nothing in the  
18 world will change until we get to the end. What I  
19 don't know is even possible -- I continue to ask the  
20 staff to think about it; I ask you to think about  
21 it -- is if as we go through our Manhattan Project  
22 here, if there are discrete parts that are easier

1 that we could segregate out and use earlier than  
2 when the whole project is completed, I think that  
3 would be a great blessing to the Agency and for the  
4 people that we serve.

5           Whether that is even doable, I don't know.  
6 But it's the type of question that I hope that my  
7 staff will continue to ask, and that you will  
8 continue to help them as they ask that question.

9           DR. BARROS-BAILEY: Abigail.

10           DR. PANTER: That's actually very  
11 consistent with the information, thinking about the  
12 nature of the scientific process. So I am happy to  
13 hear that you think this way. This is how we work.  
14 Usually it is gathering data, and in a fair and  
15 balanced way drawing some conclusion and updating.  
16 So appreciate the comments.

17           DR. BARROS-BAILEY: Okay. Do we have any  
18 other comments, questions?

19           Okay. We thank you for -- sorry about  
20 that. I didn't realize they shut each other down.  
21 We thank you for your time here. We appreciate --  
22 we know that you were coming from D.C. to Baltimore.

1 We know you have another commitment that you have to  
2 run off to. So thank you for your time yesterday.  
3 Thank you for your words and your time today.

4 COMMISSIONER ASTRUE: Again, I just want  
5 to say we're incredibly grateful for everything that  
6 you do. This is a very important project. And  
7 we're just thrilled that you are still working at  
8 it, still giving us so much help; and we're going to  
9 continue to need it for the foreseeable future. So  
10 thank you very much.

11 DR. BARROS-BAILEY: Thank you.

12 At this point let's go ahead and take a 20  
13 minute break. Thank you.

14 (Whereupon, a recess was taken.)

15 DR. BARROS-BAILEY: I think we have almost  
16 all Panel members seated to be able to resume our  
17 meeting.

18 MS. TIDWELL-PETERS: Ladies and gentlemen,  
19 if you could please take your seats. We're about to  
20 begin the meeting again. Thank you. Please take  
21 your seats.

22 DR. BARROS-BAILEY: Thank you, everybody,

1 for coming back from the break. I would like to put  
2 Deb and her Ad Hoc Group back on the stand,  
3 basically -- you are not on the hot seat. I testify  
4 too many times.

5 Deb, if you would go ahead and continue  
6 with your presentation. Thank you.

7 MS. LECHNER: Sure, Mary; thanks.

8 One of the things that as a Panel we  
9 bumped into from time to time is just coming from  
10 different disciplines, doing job analysis with  
11 different approaches, we have often encountered  
12 terminology differences. And it's caused some  
13 confusion in some of our discussions that we end up  
14 having to spend some time to straighten out. So one  
15 of the things we look at, you know, between these  
16 two different job analyses processes, how is the  
17 terminology different?

18 And one of the things that we found was  
19 that the terminology is very similar in both  
20 approaches and both reports. And they are the top  
21 terminology, because they were -- both the processes  
22 were developed when the use -- under the use of the

1 DOT. They are based on DOT terms. Again, not to  
2 imply that we think that's how it should be going  
3 forward, but that's just the two instruments that we  
4 were using.

5 We did notice a couple of minor variations  
6 in the QJDA. The job is broken down into essential  
7 tasks; and in King County, essential functions.

8 Demands are referred to in things like  
9 sitting, standing, walking. The QJDA process refers  
10 to them as demands or physical demands. The King  
11 County process refers to those exact same things as  
12 requirements. And so a couple of minor variations;  
13 But if two different professionals are talking  
14 about -- one is talking about essential functions;  
15 one talking essential tasks; and one talking  
16 demands; one talking requirements, you can see how  
17 that will create some confusion.

18 And as Shanana has mentioned earlier, one  
19 of the things that all three of us feel very  
20 strongly about is this whole issue of operational  
21 definitions, and what an important role that needs  
22 to have in whatever job analysis process is

1 developed in the future. We really feel like having  
2 those definitions in whatever procedure manuals are  
3 developed, having them emphasized and taught in the  
4 training, and making sure that certified analysts  
5 are competent in recognizing those -- that  
6 terminology; as well as, perhaps, even having some  
7 of this terminology -- as an addendum to every  
8 report there may be a glossary. So especially as  
9 this is being rolled out nationally, it will --  
10 something like that could facilitate communication.  
11 So that's one of the things SSA may want to  
12 consider.

13           And then protocol comparisons. The QJDA,  
14 as we have already mentioned, only include tasks  
15 that have physical or psychophysical demands.  
16 Whereas, the King County process includes tasks with  
17 cognitive, behavioral, physical, and sensory  
18 demands.

19           The QJDA documents the percent of day that  
20 tasks are performed. The King County just indicates  
21 that a function is performed, but does not indicate  
22 what percent of day. And then in the physical

1 demands or requirements section of the instrument,  
2 the QJDA indicates the exact percent of day that the  
3 demands are performed. Whereas, the King County  
4 form indicates a range of percent of demands -- or a  
5 range of the day that the job or the tasks are  
6 performed -- demands are performed.

7           The QJDA doesn't include the work surface  
8 that the employee stands on. While that's something  
9 that is included in King County, the QJDA does not  
10 include maximum continuous due to duration; whereas,  
11 the King County form does.

12           The QJDA doesn't indicate what the most  
13 common -- what the person is most commonly doing  
14 when that physical demand is performed. The King  
15 County does include that information.

16           The QJDA doesn't include bending the neck,  
17 while King County does. QJDA breaks reaching into  
18 two different levels. King County breaks it into  
19 four. And QJDA doesn't include ratings of cognition  
20 and behavior; whereas, King County does.

21           QJDA documents only the four steps  
22 required for pinch; but the King County breaks it

1 down into three different types of pinching.

2           So I bring these up, because this is  
3 really down in the weeds, the detail between these  
4 two protocols, but we felt it was important to  
5 highlight this. Not because these are huge  
6 important differences, but these are things that as  
7 the protocol is developed, SSA and the contracting  
8 company that develops it will have to reach some  
9 decision about the level of detail in a variety of  
10 different ways.

11           The environment, the QJDA has a more open  
12 ended descriptive approach to the environmental  
13 factors. The King County has a more inclusive list  
14 of environmental factors that the analyst chooses  
15 from. Again, this could be important in terms of  
16 the level of consistency that's seen between the  
17 different analysts. So if you have the longer, more  
18 standardized pick lists, then you probably will be  
19 more likely to get consistent data; but you may lose  
20 some of the richness of the descriptive data. So  
21 there is pros and cons of different methods of  
22 recording data.

1           And then the data collection  
2 methodologies. One -- QJDA uses videotaping and  
3 actually measures forces and distances with a four  
4 stage tape measure. The King County relies more on  
5 observation and some self-report, but self-report  
6 that is validated through observation without  
7 weighing of forces and weights, and measuring forces  
8 and distances.

9           And then after we compare and contrast  
10 these two different methodologies to one another, we  
11 started thinking a little about well, how would  
12 either of these methodologies compare with what  
13 Social Security needs in terms of the information  
14 from job analysis. And our conclusion was basically  
15 that neither of these processes would likely meet  
16 all the needs of SSA. And I think that's probably  
17 going to be true as the contracting Agency does the  
18 literature review of the existing protocols out  
19 there, none of which have been developed  
20 specifically for the use of SSA.

21           I think we're going to see -- I think they  
22 are going to turn up a lot of really good protocols

1 that are very good for specific purposes, but none  
2 that would meet all the needs of Social Security.

3           The QJDA focuses primarily on the physical  
4 and psychophysical job demands, and environmental  
5 factors, where SSA really does need the cognitive  
6 and behavioral components; and we know that's an  
7 important piece of information. The King County  
8 includes all of that, so that it would come closer  
9 to meeting SSA's needs from a comprehensive  
10 perspective; but, you know, on the flip side of  
11 that, the measurements are not as specific as the  
12 QJDA. And what level of specificity is going to be  
13 right for SSA, I don't think, has been determined.

14           And then the cognitive and behavioral  
15 aspects of the King County approach are not -- the  
16 terminology is not really consistent with the MRFC.  
17 And so as that component of the job analysis process  
18 is developed, there will have to be some decisions  
19 about what parts of the MRFC need to be kept in  
20 tact. If they are, what -- how open is SSA to new  
21 terminology in that arena? Because I think that  
22 will be much more so than the physical area, the

1 mental cognitive area will introduce new terminology  
2 to the process if it's expanded in the way that we  
3 believe SSA has expressed that it needs to be.

4 Both formats also include details that may  
5 not be necessary for SSA's adjudicative process.

6 For example, the exact percent of the day that a job  
7 task is performed. Is that performance important?  
8 Or the surface on which the employee sits and  
9 stands, is that important?

10 Both formats also exclude some of the  
11 details that may be important to SSA. For example,  
12 what is the grade of the walking surface? Is there  
13 a required pace or speed of ambulation? So the  
14 different kinds of questions that -- that need to be  
15 answered.

16 And then, you know, really the level of  
17 detail that's necessary for SSA's adjudicative  
18 process we really feel like that, to some extent,  
19 will drive the process that's used for job analysis.  
20 We have to know that -- the Administration needs to  
21 know what data we need to collect in order to  
22 develop a real -- really effective instrument.

1           Both approaches were designed with  
2 specific training that teaches the process, the data  
3 collection process, report generating process. The  
4 QJDA approach requires training, and a written and  
5 practical exam in order to achieve certification.

6           The King County approach initially has  
7 some formal training, but through conversations with  
8 some of their representatives lately, I think the  
9 training that was originally associated with it has  
10 sort of become over the years less standardized.  
11 That training has a little bit of decreased emphasis  
12 as of late. And so that example really speaks to  
13 the importance of ongoing maintenance of the  
14 training process and holding the standards over the  
15 years. Because I think some of us who have spoken  
16 to the original job analysts that were with the  
17 Department of Labor, I think what we heard from some  
18 of those folks was that that process initially began  
19 fairly standardized and as time went on  
20 standardization deteriorated.

21           So I think that's something that SSA will  
22 need to guard against, and have procedures and

1 policies in place that make sure that the initial  
2 high quality standards of the training and  
3 certification process are upheld throughout the  
4 years as, you know, initially we certainly will do  
5 more attempt data collection, but over the years as  
6 new occupations emerge, data collection will need to  
7 continue; and existing occupations will need to be  
8 revised as technology and other changes dictate.

9           We also had some discussion as a team  
10 about videotaping versus observation. The  
11 videotaping adds an element of time and expense. It  
12 provides additional validation and legal  
13 defensibility if the purposes are to develop  
14 functional testing, or to develop ergonomic  
15 countermeasures; and neither of those will be the  
16 real purpose of SSA's job analysis.

17           So SSA will need to decide whether  
18 videotaping is desirable. Whether, you know, this  
19 will be instruments that measure the forces that for  
20 each of the QJDA processes are -- the instrument  
21 have to be calibrated periodically. So all those  
22 are operational decisions that the Administration

1 will need to deal with.

2           The self-report of weights and forces,  
3 where weights are handled and forces are exerted,  
4 things in the environment like the grocery store  
5 chain we were in, and maybe a warehouse environment  
6 where the weights are actually labeled on the  
7 material that is handled, observations works out  
8 pretty well. But then it becomes in other  
9 environments where equipments, weights are not  
10 documented by the organization, just observation  
11 alone becomes a little bit more problematic.

12           It is also problematic for tasks that  
13 involve machine pulling, because the force -- for  
14 example, if you have a rolling cart, couple hundred  
15 pounds on a cart, that doesn't mean that it takes  
16 200 pounds of force to push it. And the amount of  
17 force it takes to push it depends on really the  
18 friction between the surface and the cart being  
19 pushed on. So it might only take 30 to 40 pounds to  
20 push a rolling cart with 200-pounds of force. So we  
21 have to keep those kinds of things in mind as we  
22 move forward. And so self-report may not be optimal

1 in settings where the weights and forces are unknown  
2 in pushing and pulling. But making those  
3 measurements does require more time and investment  
4 in equipment.

5           Neither of the reports had operational  
6 definitions that were embedded in the reports, and  
7 that's something that SSA may want to look at. And  
8 what the King County process didn't really provide  
9 these formal operational definitions of the  
10 requirements. As Shanahan has already alluded to, that  
11 that creates some challenges in communication among  
12 analysts and -- between analysts and the actual  
13 folks that are doing the job. So we really feel  
14 like that -- that operational definitions are  
15 important. And I have already mentioned the issue  
16 with glossary.

17           So in summary, our project provided some  
18 insight into similarities and differences between a  
19 couple of different approaches to job analysis. We  
20 found a lot more similarities than differences. And  
21 many aspects of either approach provide information  
22 important to SSA's.

1           There may be issues important to SSA that  
2 are not covered with those two processes. And SSA  
3 needs to determine the content model of a new OIS  
4 before a formal job analysis system can be  
5 developed. The rating system -- the OIS items, the  
6 rating systems will dictate the job analysis process  
7 to a great extent. And that's all we have for our  
8 report. Thank you.

9           Can we open it up for some questions?

10           DR. BARROS-BAILEY: Absolutely. Bob.

11           DR. FRASER: I just want to -- as I look  
12 at the job analysis that I did at King County forms,  
13 I think the cognitive behavioral is actually a lot  
14 closer than I initially thought. A lot of it just  
15 could be wordsmithing. For example, attending is  
16 one of our criteria in our cognitive behavior list  
17 of things; and they have something called working  
18 with heightened awareness and scanning. Some of  
19 these things can be pretty close.

20           The other thing about the King County  
21 approach is it really goes beyond -- below the task  
22 level. Like neck bending would be part of a task.

1 So they have a lot of things that are really down at  
2 what's called an element level, an element of a  
3 task. A group of tasks would be a domain of  
4 function or category of function. Just some  
5 comment.

6 DR. BARROS-BAILEY: Tom.

7 MR. HARDY: I have a couple quick  
8 questions, and one theoretical question, which is  
9 not quick. I was curious about the detail on page  
10 four about how the one system is able to calculate  
11 percentage of time. Can you give us a little more  
12 information on how that's done for the QJDA process?  
13 That's question one.

14 MS. LECHNER: We start with an interview  
15 of the incumbent, supervisors to get how often a  
16 particular job function or job task is performed.  
17 So let's say it's a housekeeping job, and the  
18 housekeepers have to go around and mop hospital  
19 rooms. How many times a day do you do that? And  
20 how long does it typically take to you to do that?  
21 Then knowing the total shift length we calculate the  
22 percent of day that that job function is performed.

1           And then we go videotape each job  
2 function, and we document the percent of that job  
3 function spent in all the different physical  
4 demands. So, you know, if they are mopping, what  
5 percent of the day -- what percent of the mopping  
6 task is spent bending, stooping, squatting,  
7 reaching. So we would add up all those percentages.  
8 Then those two percentages are factored together so  
9 that we get a weighted percent. That's all added  
10 together at the end of analysis.

11           Does that make sense?

12           MR. HARDY: It makes sense. I'm just  
13 trying to figure out in kind of a broader sense on  
14 page ten of my book you have both coordinates with  
15 detail that may not be necessary for adjudication,  
16 such as exact percentage of the job -- the time that  
17 job task was performed.

18           I'm curious because if we're looking at  
19 trying to establish -- they're many different ways  
20 of trying to meet that information. I'm curious why  
21 you said that, because say you have a blended job,  
22 and you need to know how much time is done for one

1 kind of task for one part of the job, and how much  
2 time for another. Of if you are trying to come up  
3 with a final exertional level, you know. Why does  
4 that statement seem a little bit counter intuitive?

5 MS. LECHNER: Well, you know, in my  
6 experience with job analysis I find that that  
7 information is very helpful and useful; but there is  
8 a time element involved in doing this calculation  
9 and doing a more quantitative analysis. And I don't  
10 feel like I have a really good sense yet exactly  
11 what would be important to SSA.

12 So I just wanted to point out that that  
13 level of detail very well may be what SSA needs; but  
14 on the other hand, it may not. So I'm just trying  
15 to be open minded at this point and not say this is  
16 absolutely what SSA is going to need, because I  
17 don't feel like I know yet.

18 MR. HARDY: I just have one more quick  
19 question.

20 You said that the three of you varied  
21 between two and a half to three hours to do the job  
22 analysis. Did you guys break that down in how much

1 time was spent in observation; how much was prep  
2 time prior; and how much was compilation thereafter,  
3 or is that kind of a chunk?

4 MS. LECHNER: We each spent about an hour  
5 and a half to two hours on site; and then off site  
6 we spent about that same amount of time, you know,  
7 entering data, creating reports. And then I can't  
8 really speak to how much time was spent in  
9 preparation. I don't know if someone from SSA's  
10 staff is here that can speak to that, you know. I  
11 would imagine there were quite a few phone calls  
12 back and forth. So I can imagine that several hours  
13 were spent in making all the arrangements.

14 MR. HARDY: Did either of these formats  
15 have a specified amount of time in your directions  
16 as to how long you should spend in observation, or  
17 is that decided individually?

18 MS. LECHNER: I didn't see any specified  
19 time frame that -- and in my experience the time  
20 frame is typically dictated by the variability of  
21 the job. So if it's a job -- let's say if it's a  
22 manufacturing position and it's a line worker, and

1 they are repeating things over and over and over  
2 again the exact same way every 60 seconds. You  
3 spend a lot less time either observing or  
4 videotaping that job than you would, say, if you  
5 analyze a job for a maintenance position where their  
6 job is so variable that one day they may come in and  
7 spend the entire day working on the HVAC system.  
8 The next day they are coming in, and, you know,  
9 repairing, replacing light bulbs in the ceiling,  
10 those kind of things.

11           So those kinds of jobs sometimes even  
12 require multiple days on site to be able to capture  
13 the variability. So the length of time required  
14 varies greatly according to the variability of the  
15 job.

16           DR. FRASER: This format in King County  
17 was used for the King County executive and was also  
18 used for meter reader. So the variability is --

19           MR. HARDY: That takes me to my last  
20 question, which is sort of broad and theoretical.  
21 Shanahan, you said something about you think the job  
22 analysis utilized varies by what it is you are going

1 to be exerting. We're talking about trying to come  
2 up with something, I think, that would cover  
3 everything.

4 DR. GIBSON: What I said was that job  
5 analysis varies with the technique. The forms you  
6 utilize varies based on your purpose. That's  
7 actually different. For example, if I'm doing a job  
8 analysis and I know the organization's purpose --  
9 and I wouldn't do them without identifying the  
10 purpose with them first -- is to utilize this to  
11 develop a structured interview for selection  
12 purposes. Then I'm going to be focusing on  
13 identifying things at a level that allows me to  
14 develop good, behavioral questions.

15 If they are doing it to develop their  
16 training program, I'm going to seek out a job  
17 analytic method or I'm going to take it probably  
18 from a task level analysis, because I need to be  
19 able to train at the task level. So yes, for SSA to  
20 do disability adjudication, everything they do has  
21 to be based on that knowledge of what they need to  
22 know.

1           So when we talk about developing the items  
2 for their content model, at what level do they need  
3 to measure that? What type of scales are they going  
4 to utilize? What frequency matters for the percent  
5 of time? And what this one measures -- for how many  
6 minutes or hours at a time. For how many cumulative  
7 minutes or hours, total work shift. That type of  
8 philosophical question they may have to answer at  
9 the outset before they could develop their measure,  
10 I think. So that's what I was eluding to.

11           DR. BARROS-BAILEY: Abigail.

12           DR. PANTER: I very much appreciated the  
13 methodological points that were brought up, and some  
14 of the things we need to be thinking about. I also  
15 would like to make a point that it's important to  
16 formalize the idea of having multiple raters with  
17 the same information, and also multiple performance  
18 about a job. We saw cross examples that you could  
19 sometimes have a job description and sometimes not.  
20 Sometimes have a person that's on site, and  
21 sometimes not. And you could have a supervisor, and  
22 sometimes the supervisor is more articulate than

1 another supervisor. So these are all forms of  
2 information that come into -- the information that  
3 will be important to our values.

4 DR. BARROS-BAILEY: Janine.

5 MS. HOLLOMAN: I'm just curious as to  
6 whether either of these instruments identifies  
7 something that comes up very often in the disability  
8 determination and in appeals, and that is the  
9 ability to do the job with a sit/stand option  
10 regardless of the weight; and whether the job can be  
11 done one handed. Did either one of these  
12 instruments identify those components or potential  
13 job components?

14 DR. FRASER: Definitely not sit/stand  
15 option.

16 DR. GIBSON: But maybe the one handed.  
17 I'm looking it up in the items.

18 MS. LECHNER: The answer to that question  
19 with the QJDA is typically our goal is documenting  
20 the job as it exist at the present, and then if you  
21 are asked by the organization to make  
22 recommendations in terms of ergonomic modifications

1 and changes then there is a section to the report  
2 where we identify the hazards of the job and propose  
3 counter measures; you know, ergonomic changes that  
4 could address that.

5           So we're not coming at it with a standard  
6 addressing of that particular question, although, it  
7 could become clear that things could come up as part  
8 of the ergonomic assessment piece of it.

9           DR. FRASER: The one hand isn't in the  
10 King County form.

11           DR. GIBSON: I actually have to concur  
12 with Deb as well, in the fact that when I'm doing  
13 job analysis it is for documenting the job as it  
14 occurs. To ask me could it be done becomes a very  
15 subjective measure, which sometimes puts you in a  
16 problematic position, because I am supposed to be  
17 documenting what is verifiable. So that becomes the  
18 opinion. If I were to inquire of five different  
19 incumbents I might get three who said yes, and two  
20 who said no. So that's a very hard position to take  
21 as a analyst to say "yes" or "no," it could or could  
22 not.

1 MS. LECHNER: You know, and I agree with  
2 Shanan. Once you get into the speculation of what  
3 could be it gets a little bit gray, and a little  
4 less subjective. Although, I know in many  
5 testimonies from end users within SSA, those two  
6 issues come up over and over again so that, you  
7 know, the job analysis process should, perhaps,  
8 attempt to address those issues; and that SSA should  
9 be attempting to address those issues, I think, is  
10 the question.

11 MS. HOLLOMAN: And I agree with that  
12 wholeheartedly. Thank you.

13 DR. BARROS-BAILEY: I wanted to add to  
14 that, because I think we're talking about, does it  
15 exist or can it exist? And from doing job analyses  
16 in potato warehouses in Idaho, I can tell you that  
17 in a lot of those potato warehouses that the potato  
18 sorters are given stools. If I observe that they  
19 can do it sitting or standing, it is part of the  
20 job.

21 So that option isn't a theoretical option,  
22 it exist. It is part of the way the job is done.

1 So I think that sometimes we need to consider is it  
2 a part of the job, and there are some jobs it may  
3 be.

4 A couple of things -- a couple of  
5 observations that I wanted to make in terms of the  
6 comparison terminology. I think everybody is --  
7 understood that I am kind of hyper concerned about  
8 terminology. I think what I heard the Ad Hoc group  
9 say was that terminology was important in terms of  
10 roll out. What I would probably encourage is that  
11 terminology is important right now. And I know that  
12 Sylvia talked earlier about the R & D Plan; and I  
13 would highly encourage that terminology to be  
14 developed as soon as possible. So everybody along  
15 this process has a common language to go from, and  
16 not as things get rolled out later.

17 A couple of things that were interesting  
18 to me and part of that terminology -- going back to  
19 that slide -- that QJDA and the King County used  
20 either essential tasks or essential functions. Just  
21 understanding that in terms of ADA language we're  
22 not dealing with that in terms of SSA looking at

1 core issues.

2 A couple things that I was interested in  
3 as well was, Deb, you were talking about looking at  
4 job descriptions, coming up with tasks.

5 Shanan, you were talking about the King  
6 County; and the King County, the thing that struck  
7 you was that generalized work behaviors is  
8 generalized work activities. I know sometimes those  
9 two terms among us have almost caused a little bit  
10 of conflict. Did you find that you were actually  
11 talking more about the same thing rather than  
12 different things when you were talking tasks and  
13 generalized work activities or work behaviors? I  
14 would love to hear both of your input on that.

15 DR. GIBSON: I'm sitting here looking at  
16 the things that were actually measured between the  
17 different things, sitting, standing, walking; those  
18 are very common terms. So I think we have made this  
19 point several times, the delineation between what is  
20 a generalized work behavior, and what is a task is  
21 not always clear. They are frequently the exact  
22 same thing.

1           I actually googled a moment ago smiling,  
2 what Bob said, things like bending your neck are  
3 almost subtasks or an element; or it can be higher  
4 than a task, because it's something that transcends  
5 many tasks. So it's all in how you look at it in a  
6 hierarchy.

7           This one has lots of things. One of my  
8 favorites was pinching, all right. Pinching could  
9 be seen as a subpart of picking up marbles, if  
10 picking up marbles is your task; or it could be seen  
11 as something that transcends multiple things that  
12 you do, picking up marbles, picking up widgets,  
13 picking up -- so that's not always clear. That  
14 language we use can vary somewhat, the terms.

15           DR. BARROS-BAILEY: I think because they  
16 are so similar, it becomes a little bit confusing in  
17 whether it's a work demand that I see in that  
18 slide -- QJDA talks about work demands. What is a  
19 work demand, as opposed to King County? What is it  
20 that work requires, which is more person centered?  
21 What is it that the person has to be able to bring  
22 in -- it meant the same thing; it is just the

1 terminology. So it really was demands instead of  
2 requirements.

3 DR. GIBSON: I think you are using a  
4 connotation of the word "requirement;" assume it's a  
5 human requirement instead of a work requirement.

6 DR. BARROS-BAILEY: Okay. Back to  
7 terminology. My point is made with myself.

8 Any other comments, any other questions  
9 for the group? Go ahead, Deb.

10 MS. LECHNER: You know, in terms of this  
11 whole terminology issue, I think that an important  
12 take home from this is that the exact words used  
13 aren't really important. It is just that the  
14 landing on -- everybody agreeing, okay, these are  
15 the words we're going to use and these are the  
16 operational definitions of those words. And I think  
17 that's sort of step one in developing a good content  
18 model. And will be critical for the instrument is  
19 that -- you know, who cares what we call it, let's  
20 just all agree, and agree on a definition.

21 DR. BARROS-BAILEY: Dave.

22 DR. SCHRETLEN: Thank you. You know,

1 first of all, just an editorial. I want to thank  
2 you guys for going out and completing that exercise.  
3 I'm sure it was a lot of work. But -- one of the  
4 things that I like about this, we have been doing so  
5 much work over the last couple of years on this  
6 Panel, this feels like kind of the first fore to  
7 actually going out and seeing what data looks like.  
8 So far it's been much more restricted to literature  
9 reviews, and it's been a lot more abstract.

10           So notwithstanding Deb's disclaimer about  
11 the fact that this is just a demonstration project  
12 and nothing more, I am very excited about it. It  
13 brings up for me a ton of questions, more than we're  
14 going to be able to answer before 11:00 o'clock when  
15 we are scheduled to adjourn for lunch.

16           But one of things that I have just a broad  
17 muster of question is what is the universe of job  
18 analysis instruments that is out there? Are these  
19 two examples of a couple dozen that are out there,  
20 or scores, or hundreds, or just a handful?

21           DR. GIBSON: I won't try to tackle that  
22 with an authoritative answer, but I will say there

1 are dozen of commercially available instruments out  
2 there. There are also -- many times when there is  
3 no instrument used -- if I'm going in to do a task  
4 based analysis, I don't have an instrument. I have  
5 a series of scales I know I'm going to utilize.  
6 What are my frequency scales? What are my  
7 repetition, my importance, whatever it is. When I'm  
8 going in I am starting with a scratch list, a sheet  
9 of blank paper.

10 DR. SCHRETLEN: So when you and Mark  
11 describe these taxonomies, there are lots of  
12 taxonomic systems out there; but they are not all  
13 tied to instruments that have been used to sort of  
14 support those taxonomies, is that correct?

15 DR. GIBSON: What was presented in the  
16 work analysis subcommittee's report was every -- was  
17 a list, if you will, of all the empirically derived  
18 work dimensions or associated work analysis  
19 instruments. Are there others out there that,  
20 perhaps, have not been empirically verified and  
21 published? Yes. But we limited ourselves to those  
22 because we felt like those were the most defensible

1 place to begin for SSA if they are going to start  
2 creating an universe of elements for consideration.

3 MS. LECHNER: I have a little more to add  
4 to that. I think there is the universe of what --  
5 of instruments that are out there that have  
6 published research and documented reliability,  
7 validity, or that are in the public domain. And,  
8 you know, certainly I can recall, you know, 15 or so  
9 years ago doing a grant proposal where we looked at  
10 the instruments that were in the literature that  
11 were focused primarily on ergonomic type job  
12 analysis. And that ended up being, you know,  
13 somewhere in the neighborhood of 15 to 20  
14 instruments.

15 I think there are probably double that  
16 many out in the -- being used in the world of job  
17 analysis that are not -- you know, that are  
18 commercially available to use, but no -- not without  
19 any research behind them. And then there are  
20 literally hundreds were clinicians -- maybe even  
21 thousands were clinicians who they want to get into  
22 job analysis, they put together their own form.

1           So you see that whole spectrum of research  
2 based instruments that are standardized and have  
3 evidence of reliability and validity. There are  
4 commercially available instruments that are  
5 standardized without research. Then there are, you  
6 know, sort of the hodgepodge, home grown  
7 instruments. So I think there is a huge variety in  
8 that.

9           DR. SCHRETLEN: So in a sense you guys did  
10 a little experiment in which you sampled two of the  
11 universe of instruments. Is this just a sample of  
12 convenience, or things you knew, or were there any  
13 particular -- you don't see these as necessarily the  
14 best instruments or anything like that?

15           MS. LECHNER: These were absolutely  
16 samples of convenience. I used what I developed and  
17 know; and then Bob had input into the King County  
18 cognitive elements. So he was familiar with that  
19 instrument. So we thought, great, these are two  
20 that we can just div up. By no means have we did a  
21 literature review and choose the best one.

22           I think part of the ICF work that we will

1 hear about in the coming months, they are going to  
2 conduct formal literature reviews, looking at  
3 instruments out there; and they will have probably  
4 some recommendations and thoughts based on that  
5 literature review.

6 I think that will be a very, very exciting  
7 piece of work. It's a big job to look at all that's  
8 out there. I'm looking forward to hearing that  
9 information.

10 DR. BARROS-BAILEY: Sylvia.

11 MS. KARMAN: I just wanted to point out  
12 that the experience that the ad hoc subcommittee had  
13 with doing the job analyses, at least from our  
14 perspective, is really about the process of  
15 conducting job analysis, and what that entails. So  
16 the instrument, while that's certainly a feature of  
17 what the protocol then is, when you show up on site,  
18 and whom you are going to talk with, what are you  
19 going to ask them, and how long that may take,  
20 because of the questions -- the instruments  
21 themselves, as I understood it, was not the  
22 significant aspect there that was being examined.

1 So I just thought I would put that out there.

2 DR. SCHRETLEN: I do appreciate that. I  
3 don't want to overly focus on the instrumentation,  
4 but it just seems to me like this might be  
5 foreshadowing of what we will see that, in fact, at  
6 the end of the day will be necessary to  
7 cannibalizing various systems that were not like the  
8 system deeply suited as the existing form.

9 But if we're not going to focus on  
10 instrumentation, I would like to return for a moment  
11 to Tom's question about how do you extrapolate from  
12 your observations? Because in both of these systems  
13 you talk to other people, and you talk to the  
14 worker, and you observe.

15 So in a general sense, in the world of job  
16 analysis, how do you resolve differences, when the  
17 worker says, oh, I do this 50 percent of the time;  
18 but your observation, and you think it's a typical  
19 one, shows that it's 10 percent of the time?

20 DR. GIBSON: I hate to say we rely to some  
21 degree, not entirely, on the law of averages. There  
22 is some. It goes back to what Abigail said a moment

1 ago about multiple raters, multiple subjects. So  
2 you need the wisdom -- the combined wisdom of  
3 several analysts looking at the job of cashier. You  
4 need those several analysts each looking at several  
5 cashiers.

6           And then sometimes -- what I'm faced with  
7 personally where there is disagreement, and where I  
8 see disagreements some time is what the management  
9 says and what the incumbent tells me. If we have to  
10 sit around the table and you have to play good lead  
11 facilitator and try to come up with, well, is the  
12 manager telling you what he wishes was required of  
13 the job? Is the person telling you what they have  
14 gotten to after six years of experience and they are  
15 cutting corners on the job. Sometimes it just  
16 requires some digging.

17           DR. SCHRETLEN: You just described two  
18 very, very different methods. One is, you say the  
19 law of averages. The supervisor says it is  
20 10 percent of the time, and the worker says it is  
21 20 percent of the time, and your observation is  
22 40 percent of the time. You could take the average

1 of those three, and then you are just assigning  
2 equal weight to all three sources of information.  
3 You are, in doing that, saying that your observation  
4 is no better or no worse than the worker's estimate  
5 or the supervisor's estimate.

6           Alternatively, you said that you could use  
7 judgment. The judgment of the trained job analyst  
8 who listens carefully and appreciates the particular  
9 kind of slant that the worker or the supervise might  
10 put on it, or the fact that your observation might  
11 be at a time of day that is less typical of what the  
12 person says. Is that correct?

13           DR. GIBSON: First of all, it is not --  
14 perhaps I misspoke, but I didn't think I was going  
15 to be taken literally when I said the law of  
16 averages. I didn't literally mean you take A, B,  
17 and C, and do it by three's. What I meant was that  
18 you have multiple sources of data. And yes, you  
19 would rely, I think, more heavily on the trained  
20 analyst to be the tie breaker, if you will.

21           But once again, it is not just three  
22 sources; it's many sources. As with any data, you

1 have to go and look at the data as a researcher and  
2 decide, are their outliers here? If there are  
3 outliers actually involved it becomes even tougher,  
4 because is that outlier a legitimate source within  
5 job variability? Because if it is within job  
6 variability, you may have feed back data; it might  
7 be legitimate data. And that's where your analysts  
8 have insight, because they should have seen multiple  
9 cashiers across multiple locations.

10           And I personally am always careful when I  
11 find myself talking about clinical judgment, because  
12 we know that the research on clinical judgment  
13 versus empirically derived evidence isn't flattering  
14 on judgment typically. However, I do think we  
15 should be cognizant of the fact that a trained  
16 analyst playing a role here should have significant  
17 insight.

18           DR. SCHRETLEN: I didn't mean to be  
19 concrete about -- when I said the law of averages.  
20 In fact, I -- I distinctly heard Abigail say that's  
21 it's important to have multiple raters. So it  
22 wouldn't be three. It would be a larger number; but

1 it's still a number that we're talking about.  
2 Actually, I'm not meaning to be critical of that. I  
3 think that the truth may, in fact, emerge from  
4 multiple observations and you identify the central  
5 tendency. That's a very reasonable scientific  
6 approach to things.

7 But it does sort of underscore this  
8 thought, this presentation, the distinction between  
9 observations and reports that you get, and there are  
10 going to be inferences. And I just don't -- this is  
11 not my area, so I don't know how this is resolved.

12 It makes sense to me to use one's  
13 judgment, but I appreciate that in the end you might  
14 have a combination. Each job analyst using his or  
15 her best judgment enters data about the amount of  
16 time or amount of effort on a particular kind of  
17 generalized work activity, and then we take the  
18 average of those, or we use some representative  
19 measure of those.

20 MS. LECHNER: David, I think, this is one  
21 of the areas where I do think the videotaping  
22 approach gives a little bit more objective, concrete

1 information. Because when we sit down and do our  
2 initial interviews we say, okay, so how long does --  
3 three times a day do you do this mopping task, and  
4 how long does it take you? And they give us a  
5 number, and we go and videotape it. Let's say they  
6 say 15 minutes, and we can see, wow, it takes 40  
7 minutes.

8           So, you know, obviously, you can only do  
9 "X" number of those in an eight hour day. So we  
10 have a more quantitative mathematical approach that  
11 we can compare the self-report. Then when we  
12 generate our reports and say, you know, we changed  
13 this. We changed it because -- or it -- was this an  
14 exception? Was this -- you know, was there any  
15 reason that what we saw and videotaped was an  
16 exception?

17           Then the other point I want to make is  
18 that I think SSA has some very important decisions  
19 to make in how they approach job analysis when we  
20 approach it from a perspective of developing a post  
21 offer, preemployment testing we're going into the  
22 work site and looking for worse case scenario.

1 What's the most weight you would ever have to lift?  
2 Because the job applicants are going to have to come  
3 in and do that worse case scenario. And if this is  
4 for the purposes of preventing injury, then you want  
5 to make sure that the applicants can do the worse  
6 case scenarios.

7 SSA may have a very different perspective  
8 on that and be looking at, okay, I just want to know  
9 the minimum of weight that has to be handled. Or we  
10 may, you know, end up deciding let's take an  
11 average, you know, that -- because when we're  
12 looking at jobs we're trying to create occupational  
13 categories that occur within the national economy.

14 And so -- or we can look at because we  
15 have access to such sophisticated IT approaches to  
16 these questions now that we didn't have when the DOT  
17 was developed, we could also be looking at, okay,  
18 frequency. There are a hundred of these cashier  
19 jobs, you know; 50 percent of them require 20 pounds  
20 of lifting. The other 50 percent require 100 pounds  
21 of lifting. So we can look at frequencies and  
22 compare frequencies to even geographic areas, if

1 that becomes an issue.

2           So you know, I think we -- the power that  
3 we have to analyze -- collect, analyze, group data  
4 is an advantage. We have just got to decide -- or  
5 SSA has to decide how far do you want to go into  
6 these issues? And how much and how long you want to  
7 spend on data collection? All those are sort of  
8 scientific questions related to policy and  
9 operation.

10           DR. BARROS-BAILEY: Tom.

11           MR. HARDY: Yes, I got another question.  
12 I recognize the goal of this was just sort of to  
13 look at protocols, formats, and get out there and  
14 give a start to this great exercise. But for me  
15 part of the job analysis also entails some of the  
16 things that seem to be very physically focused. Was  
17 there any evaluation of time and efficiency, work  
18 complexity, anything like that to see if there is  
19 agreement or disagreement, or how you approached it?  
20 I'm just curious.

21           MS. LECHNER: There was not that in my  
22 QJDA process. I will let Shanan and Bob speak to

1 the King County.

2 DR. FRASER: Tom, there are about three  
3 and a half pages of cognitive behavior -- work  
4 behaviors in there. And it's kind of similar to  
5 what we currently have listed. It's just more  
6 detailed. For example, there are five or six kinds  
7 of remembering. You know, remembering auditory  
8 information, video information, idiosyncratic  
9 details, and stuff like. So it's pretty  
10 comprehensive.

11 Just one comment from David's earlier  
12 point. If we don't videotape, the quality of the  
13 training for these job analysts will be very, very  
14 important. For example, you talk to the manager  
15 there is no meeting level listening, okay. You talk  
16 to a cashier, a checker, and she says oh, no, 20  
17 minutes a day I'm lifting at the medium level.

18 Then the trained analyst would probe,  
19 well, are you lifting for 20 minutes?

20 No, I'm actually lifting for two minutes.  
21 Well, actually maybe between one and two minutes,  
22 then I am unloading one or two minutes.

1           So if I'm not videotaping, I think the  
2 quality of the training has to be very good, so the  
3 analyst pursue appropriate data.

4           MS. KARMAN: I just wanted to bring up I  
5 think that this discussion that we have had about  
6 the questions that Dave raised is really important  
7 for us. I would like to see that highlighted in the  
8 report from this exercise. Because how we go about  
9 addressing things like what do you do with  
10 inconsistencies in the reporting? I mean, we're  
11 going to have to deal with that, not just with this  
12 instrument, but with a lot of the work that we're  
13 going to do internally and in development.

14           Two things, one, the way in which we  
15 determine what types of ways that we go about  
16 resolving this will have to come from our  
17 requirements, the legal standards that we come up  
18 with, and our scientific standards we come up with.  
19 So, obviously, we are not going to resolve this  
20 today. Just really excited to hear this kind of  
21 discussion.

22           Also, it sounds to me like we're talking

1 about -- you know, one of the problems I have with  
2 central tendency issues involve, well, now, I'm  
3 sorry we brought that up. That may very well mask  
4 information and details that we may very well need.

5           On the other hand, you know, we do need to  
6 get to resolution with things. We have to have a  
7 protocol for that. And I do think that, you know,  
8 possibilities may include reporting ranges, as Deb  
9 mentioned, you know, mixed methods. So that maybe  
10 we combine, you know, sounds, qualitative,  
11 quantitative that can help us we resolve that.

12           But truly I think that the impetus or the  
13 manner in which we decide we want -- how we want to  
14 resolve this, and how we want to build that into our  
15 protocol should be coming from our scientific legal  
16 standards. So I'm thinking others have something to  
17 say about this.

18           DR. PANTER: There is a very nice segment  
19 of literature on all the different ways that we can  
20 resolve this, the indices that will assess  
21 consistency in some way. So we will definitely want  
22 to look into that literature, and also think about

1 all the other ways, not just quantitative ways of  
2 approaches to use; but there is a good base for SSA.

3 MS. LECHNER: That's comforting.

4 DR. BARROS-BAILEY: Dave has one comment.  
5 We are over time. So I'm going to go ahead and  
6 defer to David, and then we will go to closing for  
7 lunch.

8 Okay. Go ahead, Dave.

9 DR. SCHRETLEN: So I appreciate that  
10 ultimately where we go with the job analysis may  
11 bear virtually no resemblance to either of these.  
12 And so, you know -- but I still think that just by  
13 talking about this experience, no matter what the  
14 instrument looks like at the end of the day, we can  
15 address many very important issues. And I could  
16 easily see spending a few hours just talking about  
17 the experience you guys had, and tabbing what you  
18 learned from this, so that we as a Panel could  
19 learn. And I'm just wondering if there is some  
20 mechanism whereby we can have more time to discuss  
21 this at some point, because I think this is a very  
22 useful exercise for this Panel to think about.

1 DR. BARROS-BAILEY: Thank you, Dave, for  
2 that suggestion. I have been writing as we have  
3 been going through this process, because I think  
4 that some of the -- of the benefits of this  
5 experience to the Panel moving forward.

6 We're about to break for lunch and come  
7 back at 1:00 o'clock. I do want to acknowledge  
8 something that I had heard -- a couple things that I  
9 heard this morning. A couple words. One of them  
10 was what benefits can we have from this process?  
11 What can we, as a Panel, bring to this? That might  
12 be more -- I would like you to kind of have that in  
13 the back of your mind when we go to some of the  
14 discussion and some of the deliberation this  
15 afternoon at the very mackerel level.

16 And also, I think, Tom, maybe one of the  
17 things I was hearing you say, or infer by the  
18 questions that you were asking, how long this took  
19 and that kind of thing, even at the micro level,  
20 what are some efficiencies that we might be -- that  
21 we might be able to recommend in some of our  
22 processes or thoughts and recommendations and advice

1 back to SSA.

2 Those might be good filters for us to  
3 consider as we go along this process.

4 So we are at -- I'm still on Idaho time --  
5 11:11 right now. We will be coming back at  
6 1:00 o'clock. Have a good lunch. Thank you.

7 (Whereupon, a lunch recess was taken and  
8 the proceedings subsequently reconvened.)

9 DR. BARROS-BAILEY: Good afternoon. I  
10 would ask everybody to please take your seats.  
11 Thank you.

12 I would like to open the afternoon by  
13 saying that we're going to have a presentation that  
14 I'm looking forward to. I have heard about this  
15 project. I know that we have had somebody from this  
16 project at every meeting that we have had the Panel  
17 from the very beginning.

18 Before I introduce the project and the  
19 members presenting, I know that they are going to be  
20 talking about the ICF, International Classification  
21 of Function, and there might be some confusion with  
22 ICF International that is -- has the BPA in terms of

1 the field job analyst project.

2           So I'm going to defer to Sylvia real  
3 quickly to have her explain the distinction so there  
4 is no confusion that we're talking about the same  
5 thing.

6           MS. KARMAN: Thank you, Mary.

7           Yes, at the risk of my being perseverating  
8 on this, as I mentioned this morning, it is -- may  
9 be a point of confusion for individuals, especially  
10 people listening, that our project right now has a  
11 blanket purchase agreement, which is a contract with  
12 an organization called ICF International to assist  
13 us in developing a business process for job  
14 analysts -- for recruiting training and certifying  
15 job analyst. Of course, there is the International  
16 Classification Function, which we're now going to  
17 hear a presentation from NIH and Boston University,  
18 and that's certainly going to come up.

19           Also, while I'm on the subject of ICF  
20 International, I think that during our morning  
21 session when we were covering the work that was done  
22 by the Ad Hoc group for job analysis, I think there

1 was some discussion about instrumentation and the  
2 types of task that ICF International will be  
3 performing for Social Security under this BPA, and  
4 it does not involve developing instruments. It is  
5 only to assist us with benchmarking job analysis  
6 approaches and helping us develop a business process  
7 for recruiting, training, and certifying.

8 DR. BARROS-BAILEY: Thank you. At this  
9 time I would like to welcome our presenters -- our  
10 four presenters. As I mentioned this morning, I had  
11 requested that we have a presentation by the  
12 collaborative project between Social Security  
13 Administration and the National Institutes of Health  
14 that was mentioned along with the OIS project in the  
15 NPRM listing.

16 Part of the reason for my interest in this  
17 project was that very mention. Therefore, anything  
18 that we can learn that may lend ideas or data  
19 elements, scaling, research methodologies, anything  
20 about the project that might be helpful to our  
21 process it is of interest. I understand this is a  
22 very exploratory research project; whereas, the OIS

1 development is applied to the work side, and asks us  
2 to understand the different purposes of both  
3 projects.

4           We're going to have four presenters. I  
5 would like to welcome Mark Spencer. He is the  
6 Associate Commissioner of the Office of Disability  
7 Programs, ODP, in the Office of Retirement and  
8 Disability Policy.

9           And if you look at the fourth red divider  
10 in tab two, we have very detailed biographical  
11 sketches of each of the presenters.

12           I would also like to welcome Dr. Beth  
13 Rasch who has been part of our meetings here for a  
14 long time, a familiar face to us. She is chief  
15 of -- Staff Scientist and Chief of the Rehab  
16 Medicine Department, NIH Clinical Research Center.

17           We also have Dr. Stephen Haley, who is  
18 Associate Director of Health and Disability Research  
19 Institute at Boston University, School of Public  
20 Health.

21           And Beth Barfield. She is a Pre-Doctoral  
22 research fellow at the Health and Disability

1 Research Institute.

2 Welcome.

3 MR. SPENCER: Thank you very much. Again,  
4 my name is Art Spencer. I am the AC for the Office  
5 of Disability Programs. The best way to think about  
6 ODP is disability policy and DDS. My brother in  
7 arms is Richard Balkus. We work very closely with  
8 him on many of his efforts. He helps us greatly on  
9 many of ours. We are proud to be providing some  
10 staff support to your work, and we're going to  
11 continue to do that, of course.

12 In August of 2007 we sought advice from  
13 the National Institutes of Health on new  
14 technologies, diagnostic tools and models that might  
15 help inform the disability evaluation process. The  
16 NIH Rehab Medicine Department suggested that we look  
17 at innovative ways to assess functioning across the  
18 spectrum of abilities. This discussion led to two  
19 parallel tracks and an inter-Agency agreement with  
20 the NIH Rehab Medicine Department.

21 First, an analysis of the existing SSA  
22 data. And that's proven very helpful to us and

1 meaningful particularly, and that work continues.  
2 We're not going to spend a great deal of time on  
3 that that day.

4           Then, secondly, the assessment and  
5 feasibility of developing computer adaptive testing  
6 instruments or CAT instruments, that could be  
7 integrated into SSA's disability evaluation process.

8           The focus that we are looking at here is  
9 on function. In the DDS world and in the ODAR  
10 world, i.e, the adjudicative world, we need function  
11 to assess many of our medical listings. We need  
12 functional information to develop residual  
13 functional capacity. And both of those lead to --  
14 eventually to a decision to allow or deny benefits.

15           The bad news is, is that there is no easy  
16 way to get that. The best way, or the way it's  
17 often done now is, "Ms. Harmon, what do you do  
18 during the day?" Then we transcribe what's said.  
19 There is very little else that we have. We take  
20 that and try and translate that through the medical  
21 impairment that they have to come to a residual  
22 functioning capacity, or to prove the existence of

1 those functional limitations that might demonstrate  
2 that a listing is met. But there is, at best, some  
3 pretty weak correlation.

4           So working here with this group and now  
5 we're entering -- our third year?

6           DR. RASCH: Yes.

7           MR. SPENCER: Our third year. I think you  
8 are going to see this afternoon some very  
9 interesting approaches, some of which -- and this  
10 is, of course, with our work with Sylvia and with  
11 Richard -- some of which might inform what you do;  
12 and also ODP would be more than happy -- if it does  
13 seem an interesting approach, we will be more than  
14 happy to try and find a way to expand our work so  
15 that we can support you even more fully.

16           At this point I'm going to step aside and  
17 let the experts talk; but, again, thank you very  
18 much for being some wonderful hosts to my people.  
19 They also participate in your work and have done so  
20 from the beginning. Please rest assured that help  
21 to you will continue for as long as you like it.  
22 Dr. Rasch.

1 DR. RASCH: Thank you. I will just make  
2 one minor correction. I'm the Chief of the  
3 Epidemiology and Biostatistics section within Rehab  
4 Medicine. The chief of Rehab Medicine is  
5 Dr. Leighton Chan, who I thought I saw here today.

6 Yes, there he is. He is holding his hand  
7 up.

8 I want to tell you that we are incredibly  
9 pleased to be here today. My colleague from NIH,  
10 Diane Brandt (phonetic), and I have attended every  
11 single meeting of the Panel since the very first  
12 meeting, because we feel your work is so related to  
13 ours. And we have been watching with great interest  
14 your activities and your deliberations, and we want  
15 to stay informed of your work. So thank you very  
16 much for the invitation to be here today.

17 I would like to just clarify, as Mary  
18 said, this is exploratory work being conducted by  
19 NIH and BU, examining the ways in which claimants  
20 and their health care providers can quickly and  
21 easily provide information about the claimant's  
22 functioning. SSA has not yet adopted or endorsed

1 this approach. I want to make that clear.

2           In August of 2007 SSA came to NIH seeking  
3 identification about new diagnostic tests and novel  
4 assessment approaches that might expedite  
5 allowances. The SSA paradigm at that time, just by  
6 virtue of the question that was asked, what new  
7 diagnostic tests might expedite allowances -- the  
8 paradigm was one of diagnosis or impairment relating  
9 to disability. And we suggested that examining the  
10 capabilities of individuals within the context of  
11 workplace demands might be a more truthful line of  
12 inquiry. So we entered into an inter-Agency  
13 agreement in February of 2008. We signed a new  
14 agreement this past February of 2010; and it's five  
15 year agreement. So we have work outlined through  
16 2015.

17           We have two broad objectives, as Art  
18 mentioned, to improve the determination process,  
19 including data analysis and development of computer  
20 adaptive tests. We have been given access to an  
21 unprecedented volume of data from SSA. And that has  
22 allowed us to understand the basis of award

1 decisions; to understand the problems with the  
2 process, such as the large number of decision  
3 reversals that happened during appeals. And it has  
4 also allowed us to develop data driven systematic  
5 approaches that will allow SSA to inform their  
6 decision making process.

7           So in other words, we're delivering to SSA  
8 analytic models that they can use on their own data  
9 to help support programmatic decision making.

10           On the flip side -- NIH is taking  
11 responsibility for that portion of the work.

12           On the other side, Boston University is  
13 leading the effort on developing computer adaptive  
14 tools, which are essentially -- it's intelligent  
15 software. It's been applied in educational settings  
16 for a very long time. And more recently, they have  
17 been applied to the assessment of functioning; and  
18 Alan Jette and Steve Haley are really leaders in the  
19 field in this area of applying CAT methodology based  
20 on item response theory to measure functioning.

21           And Steve is going to be spending the  
22 majority of the time today talking about CAT

1 methodologies, and the steps involved in that  
2 process. So I won't spend more time on it today.  
3 But again, the thought is that we are focusing on  
4 function.

5           So when we started out thinking about this  
6 work, and I eluded to it before, we start with how  
7 disability is conceptualize. And this has really  
8 evolved in the last 50 years. So early models,  
9 often termed the medical model, attributes  
10 disability to an individual. It's a personal trait  
11 as if -- similar to hair color or gender. However,  
12 if you look at the person in the upper right slide  
13 he has limb loss. But I would propose that if you  
14 examine functioning, that is skiing in this  
15 particular slide, I would be the one disabled  
16 compared to him, because I absolutely could not do  
17 that, what is being depicted in the slide.

18           On the other extreme is the social model,  
19 which indicates that disability is a socially  
20 created problem. So in other words, if a person in  
21 a wheelchair encounters a flight of stairs, is the  
22 problem that they can't go up and down the stairs,

1 or that the stairs exist? The social models would  
2 say, it's because the stairs exist. They're  
3 architectural barriers, socially created problems  
4 that prevent people with disabilities from fully  
5 participating in every day life.

6 So contemporary models really integrate  
7 both of these perspectives, and they view disability  
8 as the outcome of the interaction of the  
9 capabilities of individuals in the context of  
10 environmental demands. And in this case it would be  
11 the context of workplace demands.

12 There has been a long history of  
13 development of these models starting with the work  
14 of Saad Nagi in the 1950's. The models have been  
15 iterative in some respects. In other words, one  
16 builds on the work of previous models. The most  
17 recent model is the World Health Organization  
18 International Classification of Functioning,  
19 Disability, and Health. That's the full title  
20 termed the ICF. It's precursor for the ICIDH and  
21 the ICIDH-2. This is just to say that there has  
22 been a lot of work done in this area of

1 characterizing disability and functioning that's  
2 taking place over probably the last 50 years.

3           So this is the International  
4 Classification of Functioning, and you can see that  
5 there are several major domains. So -- and I will  
6 just give you some examples to orient you. So a  
7 health condition would be, for instance, a stroke or  
8 a spinal cord injury that occurs at the cellular or  
9 tissue level. Body functions and structures, the  
10 negative aspect of that would be termed impairment.  
11 So it occurs at the body system level, and it would  
12 be things like weakness, cognitive problems,  
13 blindness; those types of things.

14           At the next level, the activity level,  
15 those are tasks or actions conducted by an  
16 individual. It takes place at the whole person  
17 level. So it would be things like standing,  
18 bending, stooping, walking, reaching, lifting, the  
19 types of things that you -- the Panel often  
20 discusses. How those activities combine with  
21 environmental factors, and personal factors yields  
22 participation. That's how the person operates at a

1 societal level. That would be work. That would be  
2 running a household and various roles that people  
3 hold in society. So think about work as being  
4 participation.

5           The SSA paradigm has primarily been to  
6 measure health conditions, and body functions and  
7 structures to make determinations about whether or  
8 not people can work. And NIH has proposed that the  
9 measurements should take place at the level of the  
10 whole person measuring activities in the context of  
11 workplace demands to understand capability to work.

12           So contemporary concepts of disability  
13 depicted as being interactive. Remember, I was just  
14 mentioning that it's the interaction of the  
15 individual in the environmental context, rather than  
16 being an individual attribute; therefore, diagnosis  
17 alone is not a good predictor of disability.

18           Now, there is some instances that it can.  
19 For instance, SSA compassionate allowance program  
20 includes a list of conditions where people are  
21 highly likely -- where there is early mortality,  
22 where they are highly likely to have rapid

1 functional decline; and there are certainly  
2 conditions for which this is true, where people are  
3 highly likely to be disabled or not to survive for a  
4 long period of time.

5           However, it's a very small proportion of  
6 people who apply for benefits. So the problem  
7 becomes one of this interaction, examining  
8 capabilities in the context of the workplace  
9 environment. Disabilities multi-dimensional  
10 instrument, as you just saw in the ICF model. So  
11 there are many different conceptual components that  
12 constitute the definition.

13           It occurs along a continuum. So,  
14 although, SSA makes a determination that somebody is  
15 or is not disabled, in fact, disability occurs along  
16 the continuum of functioning; and it's dynamic.  
17 Based on contemporary definitions, if the  
18 environment is part of the equation in supportive  
19 environments people may have no disability who have  
20 profound impairments. In a less supportive  
21 environment they can be disabled. And disability  
22 can also change over time. People recover and

1 decline, as you know.

2           So measuring such a concept poses a  
3 methodological challenge. And in order to  
4 operationalize the concept we need to measure both  
5 individual attributes and environmental features.  
6 And as was mentioned this morning, the operational  
7 definition depends on the purpose of data  
8 collection. So if you are collecting information  
9 about people with disabilities for the purpose of  
10 providing accessible housing, you are going to  
11 collect very detailed information about the types of  
12 limitations that individuals have, and the types of  
13 architectural features they may need in their home.

14           If you are collecting disability  
15 information for the purpose of equalization of  
16 opportunities for civil rights legislation, you are  
17 going to adopt a very broad definition of disability  
18 so that as many people as possible are included in  
19 the legislation. So we really need to think about  
20 the purpose of measurement when we operationalize  
21 the definition.

22           SSA's definition, based on statutory

1 regulations, has been to identify people who are  
2 unable to engage in substantial gainful employment  
3 due to medically determinable physical or mental  
4 impairments that is expected to result in death or  
5 last 12 months; and are expected to be of such  
6 severity that the individual cannot do their  
7 previous work, and can't do their work in the  
8 national economy. I know you are quite familiar  
9 with the definition.

10           So there is a -- in our view, there is a  
11 gap between contemporary notions of disability, and  
12 how SSA operationalizes its statutory definition.  
13 We are not suggesting that SSA should change its  
14 statutory definition. We are suggesting that the  
15 operationalization of that definition change.  
16 Because the current operationalization is focused on  
17 physical and mental impairments, which is -- harkens  
18 back to the old medical model. While contemporary  
19 models depict disability as the gap between what  
20 individuals are able to do and their environmental  
21 demands. So as I mentioned before, diagnosis and  
22 impairment may be poor predictors of work

1 disability.

2           So the classic nonexample is two people  
3 can have loss of a finger. One is a teacher and one  
4 is a concert pianist. For the teacher it has no  
5 effect whatsoever. For the concert pianist it's  
6 devastating.

7           When Art Spencer first heard me give this  
8 example, he said, are you familiar with the well  
9 known jazz pianist who was badly burned and was able  
10 to continue his job as a pianist, quite well known  
11 person.

12           I said that is a perfect illustration of  
13 the problem. Because people have amazing  
14 resilience. And they can have impairments and  
15 continue to function. So you want to look at  
16 function. You want to look at what people do at the  
17 whole person level. How they play the piano, not at  
18 the impairment, which would be loss of range of  
19 motion, that type of thing, or it could be  
20 dexterity.

21           So measurement. In order to measure  
22 whether or not -- the components of whether or not

1 people can work, we really need to examine  
2 activities at this whole person level in the context  
3 of workplace demands, and the aspects of the  
4 workplace environment to yield decisions about  
5 whether or not people can work.

6           So activities are, as I mentioned, things  
7 like bending, standing, stooping, whole person  
8 activities; and we're suggesting that measurement  
9 takes place at this level.

10           I am going to toggle back and forth  
11 between two slides.

12           So the ICF actually does not make a  
13 distinction between activities and participation;  
14 and that is because there was a huge disagreement  
15 among the committee that developed the ICF about  
16 where to draw this line. So there are nine domains  
17 that comprise activity and participation; and I am  
18 showing you six of them here.

19           So based on the definition of activity,  
20 and NIH's opinion we would consider these to be more  
21 oriented toward the person. Things that people do  
22 at the whole level, rather than the person in

1 society. So these are interpersonal interactions  
2 and relationships, mobility, learning and applying  
3 knowledge, communication, self care, and general  
4 task and demands, which are things like  
5 multitasking, or organizing time, materials, and  
6 space.

7           The other domains are much more oriented  
8 toward community and civic life, and working, and  
9 activities in the community, which we would consider  
10 participation.

11           So having said that, we have coded all of  
12 the information that SSA collects through their  
13 forms and evaluation processes and have found that  
14 use of the ones through the ICF and examining  
15 specifically the activity domain, the very limited  
16 information is captured on learning and applying  
17 knowledge, general tasks and demands, communication  
18 and interpersonal interactions and relationships.  
19 Yet, these are areas that are critical to work, and  
20 I know that the Panel has discussed this in previous  
21 meetings.

22           So NIH and BU prioritized two domains for

1 CAT development, interpersonal interactions and  
2 relationships and mobility. We did this for a  
3 number of reasons. The first is because in the  
4 mobility domain SSA already collected a substantial  
5 amount of information about mobility, and we were  
6 able to build on that. There has also been a  
7 substantial amount of work on CAT development in the  
8 mobility domain -- or the physical demand domain.  
9 So we felt that we would have the best shot at  
10 developing a tool that could be feasibly implemented  
11 in the mobility domain.

12           There has been far less work done in the  
13 personal interaction domain. Yet, it's of great  
14 value to SSA, because they have had difficulty  
15 adjudicating cases where people have mental health  
16 problems, and the applicant constituency has changed  
17 so that more and more people with mental health  
18 problems are applying for benefits. So we thought  
19 this would be of great value to SSA. So we choose  
20 to start with these two domains; although, our plans  
21 are to develop CATs for all six domains.

22           So we made several recommendations to SSA

1 at this point, and I will capture the major ones.  
2 We recommend the whole person approach to capture  
3 all the conditions that applicants report, because  
4 the sum total of the impact of these conditions on  
5 functioning is what is critical to work. So we know  
6 from national data that the majority of working age  
7 adults have one or more chronic conditions. The  
8 majority of working adults have one or more chronic  
9 conditions.

10           People continue to work as they accumulate  
11 chronic conditions. And at some point they develop  
12 a condition that causes them not to be able to work.  
13 When they come to SSA for benefits they have -- they  
14 may have functional limitations due to all of those  
15 conditions or some of those conditions. And it's  
16 the sum total of how those conditions affect the  
17 individual that really would allow them or prevent  
18 them from working. So our recommendation is to  
19 evaluate function comprehensively and to capture all  
20 of the conditions that people report when they apply  
21 for benefits.

22           We are also recommending a focus on

1 functioning. This is data from 2005 from what is  
2 called the disability waterfall. So this is SSA  
3 data indicating that in that year there were 2.6  
4 million initial applications. Many of those denials  
5 went on to reconsideration or to the ALJ level of  
6 disposition. Of those who went to appeal,  
7 62 percent were allowed.

8           So the concern is what's happening in that  
9 process to cause decision reversal. And while SSA  
10 certainly works very hard to collect information  
11 about functioning and to evaluate workplace demands  
12 and to look at that interaction, we feel that the  
13 most detailed information about how people function  
14 in the context of work comes to light at the  
15 appellate level. And that if we could collect  
16 comprehensive, uniform information about functioning  
17 early in the process, that it would allow SSA to  
18 make more informed decisions very early in the  
19 process. And it really hinges on having a type of  
20 assessment that's very quick, comprehensive,  
21 uniform.

22           So we feel that this work has usefulness

1 to SSA, because it could dramatically improve the  
2 breadth, the completeness, the uniformity, and the  
3 precision of the medical evidence. That we can  
4 collect data when it's really most useful for  
5 decision making. And really even small improvements  
6 in the process may lead to reduced processing times,  
7 improved accuracy, uniformity of decisions, and  
8 reduced blacklogs.

9           So, again, this is exploratory work. It  
10 has not yet been endorsed by SSA. And if you  
11 haven't gathered by now I'm really introducing the  
12 project, and then Steve Haley is going to talk in  
13 detail about the computer adapted testing. So I  
14 would be happy to take questions on this portion of  
15 the talk if that's appropriate.

16           DR. BARROS-BAILEY: Sure. I will go ahead  
17 and open it up to the Panel to see if anybody has  
18 any questions at this point.

19           DR. SCHRETLEN: Thank you, Beth. That was  
20 a wonderful overview. Are you or Dr. Haley -- are  
21 you going to address the kinds of domains that are  
22 suitable for CAT technologies? I'm wondering what

1 sort of abilities are suitable. I assume that  
2 you --

3 DR. HALEY: Well, we have tackled one of  
4 each in this first group. We think physical demands  
5 is going to be more concrete. Some of the social,  
6 cognitive or interpersonal interactions we're doing  
7 are more difficult to scale; but they have been done  
8 in the past. And we're going to make a good effort  
9 to make sure that they are acceptable for CAT use.

10 DR. BARROS-BAILEY: Great.

11 Thank you, Beth, for that introduction.  
12 And Dr. Haley.

13 DR. HALEY: Thank you very much. It's a  
14 real pleasure to be here. It's very exciting for me  
15 to be able to have this much time to talk about our  
16 CAT project, using this amount of time. So I'm glad  
17 there is interest, and we're very happy to be here.

18 I just want to let you know there are  
19 certainly many others at BU who are working on this  
20 project. Alan Jette, who many of you may know is  
21 Co-PI. We have Karen Bogusz, she is our project  
22 director. Our training director, Mary Slavin is

1 involved. We have a really great team of IT  
2 analysts or CAT programmers directed by Pengsheng  
3 Ni. Beth Barfield, our student is here.

4 We also consult with Ron Hambleton, who  
5 has been doing CAT and IRT work and education for  
6 probably over 30 years. He will look over our  
7 shoulder and make sure that what we do is sound and  
8 good.

9 Then we also are in our calibration work,  
10 which we will talk about in just a minute. We have  
11 subcontracted with Westat, and Bill Frey is leading  
12 the effort. They are a large survey center that SSA  
13 has used many times before. I think they are going  
14 to be very good at documenting all the data.

15 So, again, we want to make sure that you  
16 understand that this is exploratory work. It has  
17 not been endorsed. It has to be proven in the  
18 field, I think, before SSA is willing to adopt it.  
19 It is simply a way in which claimants and their  
20 health care providers can quickly and easily provide  
21 information about claimant's functions. So we are  
22 trying to do CATs both for claimants and providers

1 as well.

2           There are six parts of the presentation.  
3 We're going to talk about the functional domains,  
4 and some of the subdomains within interpersonal  
5 interactions, and physical domains.

6           Some of the formative work that goes into  
7 building items, calibration study and its plan. And  
8 then we will talk a little bit about computer  
9 adaptive testing and give you some of the details as  
10 to how it works, and how it doesn't work, and  
11 interpretation of individual scores. I know there  
12 is some sensitivity about scores, but that's what  
13 CAT does.

14           And the source can be used in many  
15 different ways. They don't have to be made from  
16 decisions. They can just be information. But we  
17 can show you how the scores might be possibly  
18 compared to the environmental job demands, et  
19 cetera. And then we have a small pilot study at the  
20 end of CAT development, just to make sure it can be  
21 used in the SSA system.

22           Then I have a question period after each

1 of these sessions. So if you will allow me to go  
2 forward, and then if you have questions they will  
3 come after each section.

4 We said that the two functional names we  
5 have chosen for our first feasibility test is  
6 physical demands and interpersonal interactions.

7 And our overall model recognize that there  
8 is physical areas, and cognitive, and mental. Here  
9 are the six areas that we will be tapping into  
10 eventually. The wording all comes from the ICF.

11 I'm going to take you on a little tour  
12 here. So if we look at one of the components of  
13 physical demands we will see that there is a change  
14 in basic body position component in one form of  
15 maintaining body positions. So these sub -- now  
16 these may not be in your handouts, because they are  
17 animations. So the full thing will be up on the  
18 screen.

19 Each of these areas was examined by  
20 ourselves, content experts, et cetera; and we built  
21 items around each of these content areas. So there  
22 are standing items. There are sitting items,

1 bending, squatting. In terms of whole body position  
2 there is walking, moving around. Moving around  
3 involves either the use of walking device or a  
4 wheelchair.

5           We debated for a long time if running is  
6 something necessary; but we did think of some  
7 professions that do require some running, policemen,  
8 fireman, et cetera. And then certainly carrying,  
9 moving, and handling objects with a lot of items for  
10 hand use since many people don't have to get around  
11 too much in the workplace, they just stay at a desk.

12           So all of these areas were identified as  
13 key to potential work jobs, work place environments.  
14 So we wanted to ask questions from a claimant as to  
15 how they did these types of items. So that's our  
16 physical demand model, content model.

17           We will take you through interpersonal  
18 interactions. This is much more complex. Now, this  
19 was not done just because we thought it was right.  
20 We looked at the literature. We have identified  
21 content experts. We have a lot of feedback into  
22 what components really made up our personal

1 interactions. So all of these components were  
2 considered essential to trying to build some content  
3 into this task. So questions on trustworthiness,  
4 and do you trust others, et cetera?

5 In terms of behavioral modulation, a whole  
6 series of areas that we thought were important in  
7 the workplace. These mainly had to do with control  
8 of workplace behaviors.

9 Now, we put in a -- some items regarding  
10 adaptability. You know, they may fit better in  
11 general tasks and demands. We're not sure, but we  
12 felt like we wanted to test them with this set  
13 first. So this is -- these are response to change  
14 and coping with stress.

15 Now, the good thing about this if they  
16 don't fit this -- these types of items within a  
17 background model, we can pull them out, save them,  
18 and see if they fit with others.

19 Then basic interactions includes a number  
20 of areas that we want to ask about. So this is a  
21 much more complex model, and -- now, we have -- we  
22 know that most of the people that are claimants have

1 not worked for a while. And so we did want to build  
2 some behavioral items that reflected back to either  
3 their very recent work or their current work. So  
4 this is a real short set of items, but it gives a  
5 sense if they are currently working now, you know,  
6 what are the issues?

7           One of the nice things about the computer  
8 format is if you ask them to work them out, and they  
9 say "no;" then these will be filtered out. They  
10 wouldn't show up.

11           Okay. So that's interpersonal  
12 interactions. Questions.

13           DR. GIBSON: I have two actually. Looking  
14 at what you referred to as your content model I'm  
15 just curious mostly about the ones on interpersonal.  
16 I found it interesting -- I understand why -- but I  
17 wanted to clarify why you included personality  
18 constructs as a part of function? Because  
19 personality is typically not perceived as something  
20 that is a limitation, because it's something that is  
21 stable over time. Although, it predicts the type of  
22 work you may like to do it, doesn't predict whether

1 you can or can't work.

2 DR. HALEY: I think it's more of an  
3 extreme personality trait that we're looking for. I  
4 don't have the items with me, but I would be happy  
5 to show you the items in that area.

6 DR. GIBSON: Thank you. I find that  
7 interesting, because big five items is what I was  
8 looking at. It looks like a big five factor model  
9 scale there. Then I also just had a question  
10 regarding what you referred to as your content model  
11 on the physical side. You talked about development  
12 of items on each of these. Can you share with us  
13 how many items you had on average for these, and the  
14 nature of those items? Because I think it would be  
15 very helpful for our work, to continue SSA's work on  
16 development of our content model further.

17 DR. HALEY: This will show up in the next  
18 section. I have it on a slide, so I thought I will  
19 give you the real numbers. We started with five or  
20 600 items in each area.

21 MR. HARDY: I have a quick question on  
22 your interpersonal interactions. Later on do you go

1 into more detail on some of these things, such as  
2 agreeableness? Are they defined, and this is  
3 further up the road?

4 DR. HALEY: Not in this talk. But we can  
5 certainly show you the items that we have built in  
6 the area.

7 DR. RASCH: I am sorry. I will just  
8 mention that we have delivered -- the NIH  
9 deliverables to date, and the BU deliverables for  
10 Sylvia and to Mary for Panel use, and for use within  
11 OPDR. So all of the questions that are going to be  
12 tested that are in the current calibration test, all  
13 of the definitions, much more detail about the  
14 development of the content models and that process  
15 are included in those deliverables; and so the Panel  
16 will have access to all of that.

17 MS. LECHNER: My question has to do  
18 with -- a little bit with your process for  
19 developing all of your functional domains and items.  
20 I guess that's what you are about to explain.

21 DR. HALEY: Yes, I will try. If we don't,  
22 there will be a question section afterwards. Yes.

1 DR. HUNT: I am not intimately familiar  
2 with the ICF. How deeply into this structure are  
3 you still following the ICF -- I don't know -- pick  
4 one of them? Is it the third level, carrying,  
5 moving, and handling? Is it down to all of those?  
6 Are we still within the ICF structure?

7 DR. HALEY: Well, not fully. At some  
8 point if it made sense to alleviate, you would; but  
9 some of the major categories we tried to keep.

10 DR. RASCH: I will just add to that. The  
11 ICF was the framework that we started with. We  
12 choose it because it's the international standard  
13 for examining functioning. It gives us the common  
14 language to define functioning. What the ICF  
15 contributed were, in addition to defining and  
16 delineating the major domain of functioning, it went  
17 into great detail, as you can see, to define the  
18 subdomains within this domain. So that was a good  
19 starting point for us. But then, as Steve  
20 mentioned, accepted literature review and content  
21 expert's input drove the addition of additional  
22 subdomains.

1 DR. HALEY: Just one more point.

2 DR. PANTER: I am just wondering if we  
3 have access to kind of look at your methodologies or  
4 content model, because I think that will be useful.

5 DR. HALEY: Yes. Yes.

6 Just one more point. We will let the data  
7 drive us as to what domains are unidimensional, and  
8 what we can pull out. I hope we have multi-factor  
9 solutions. I hope we have even two factors, or even  
10 a large factor solution that we may interpret; but  
11 we will see.

12 Any other questions?

13 DR. BARROS-BAILEY: I was just going to  
14 say I think everybody is done with questions.

15 Dr. Haley, you may move on. Okay.

16 DR. HALEY: Thank you. All right. The  
17 formative work in building these items around these  
18 content areas. I'm going to give you an overview,  
19 and this methodology has been used pretty uniformly  
20 now in major projects that are building CATs.  
21 Certainly, problems in your overall, and most other  
22 projects that are building CATs, are using a very

1 similar process. And there has been quite a bit of  
2 work and applications actually on methodologies  
3 that's available.

4           So we have catalogued all the items we  
5 could find in physical demands and interpersonal  
6 interactions from every instrument that we can  
7 find -- we could access. So that, hopefully, will  
8 give us the universe, at least in the past, of how  
9 people have tried to ask these questions.

10           We have done a series of focus groups  
11 where we have asked claimants and providers what  
12 they think are important areas to ask. And we have  
13 built new items, thinking that there are gaps. And  
14 we have had content experts help us build those new  
15 items. So these are people who have done  
16 instruments in the past in the areas that we're  
17 looking at. Then we develop initial item pool,  
18 which is evaluated by the experts and claimants, and  
19 particularly by cognitive testing, which we will  
20 talk about in just a minute.

21           Now, at this point we have a lot of  
22 volumes. So we have to narrow it down quite a bit.

1 Then we finally get to a point where we have an item  
2 pool that we're going to go out and test. We will  
3 call this a calibration phase. We send these items  
4 out and claimants and providers answer them. All of  
5 them. It's about a hundred or so. So that we get  
6 data to help us understand how these items fit  
7 together. Then we do our analytic hocus pocus and  
8 come out with models and scores.

9           So we have extensive literature review,  
10 and focus groups. We had four content experts  
11 actually in physical demands. We gave three for  
12 interpersonal interactions. And we did a series of  
13 cognitive interviews on all the others.

14           Cognitive interviews, if you are not  
15 familiar, it provides a sense of how this item  
16 sounds to the claimant or provider, and try to  
17 get -- to try to understand errors that we don't see  
18 either as professionals; or the people not  
19 understanding words the same way as we are. So it  
20 asks the participant a question; then it asks a  
21 series of pros. Like in your own words, what do you  
22 think this questions is asking? How competent are

1 you in your answer to this question? Can you think  
2 of a better way to ask this question? Well, very  
3 often they can. How do you like that answer? Was  
4 it hard or easy to answer that question.

5           So with that feedback, then we go back and  
6 we revise the items, and the content experts are  
7 involved in this process as well.

8           Now, the cognitive interviews did make a  
9 big difference. There were at least ten items in  
10 the physical demands that were completely rewritten;  
11 and seven in interpersonal. And it -- the whole  
12 process gave us a sense of, you know, the kinds of  
13 words that we could use and should used to avoid  
14 misunderstandings.

15           So some of the items, for instance, that  
16 are in the physical demands, are you able to lift a  
17 20 pound object from table height to a high shelf?  
18 Now, this was done to represent one handed lift to a  
19 medium height, to a high height, which is one of the  
20 kinds of job demands that might be necessary in  
21 certain circumstances.

22           How far are you able to walk without

1 stopping.

2           How quickly are you able to walk?

3           And then, are you able to walk over -- to  
4 work overhead -- this is an item -- for 20 minutes,  
5 like organizing a high shelf in a closet. Some  
6 people have demands where they have to work on  
7 higher levels for some time. I don't know about  
8 you, but after 20 minutes if it wasn't organized I  
9 just quit. Sometimes you get pretty tired working  
10 overhead.

11           In terms of the interpersonal interaction  
12 items, these are just sample items. I feel good  
13 about myself. I am so tired when I wake up. It's  
14 hard to get going. I get back on track when I am  
15 distracted. That's a little bit more relevant. I  
16 can't stop myself from doing the same thing over and  
17 over. I have difficulty calming down. I get in  
18 conflict with others. That's how we're trying to  
19 ask the questions.

20           Now, we read your stuff and some of the  
21 things were very helpful to us, because in your  
22 recommendations you indicated that there ought to be

1 an assessment of repetitive items, varying force  
2 requirements, duration of typical day, how many  
3 hours a day, balance items, reaching levels, which  
4 you just saw an example of; and unilateral,  
5 bilateral.

6           So we had to do -- what our content  
7 experts had to do is figure out what would be  
8 unilateral lift of something that was common to  
9 somebody, you know, from one height to another; and  
10 that's how we built many of the items.

11           Now, repetitive item. That was a little  
12 bit of a struggle; but an example would be if you  
13 drop cards on the floor, and they were spread out,  
14 and you had to pick them up. It wasn't just one  
15 bend; it was multiple bends. And to some people  
16 they told us at least that was really difficult.  
17 They could bend once and pick something up; but if  
18 they had to bend over and over again to pick things  
19 up, that was really a struggle.

20           So many of the items are couched in the  
21 content that we want to get at. They are not  
22 couched in the workplace, because most of these

1 people haven't worked for a while. So they have to  
2 be fairly common items that people, even if they are  
3 not in the workplace for a long time, would be able  
4 to answer.

5           And then the content areas addressed your  
6 recommendations. Was it an interpersonal function?  
7 Now, we didn't put in too much -- too many items on  
8 an issue in resistance. We're going to leave that  
9 for a general task, I believe. Then the  
10 neuro-cognitive items we're going to leave for  
11 learning from the client and knowledge.

12           So we initially started with 361 items,  
13 interpersonal interactions. We also took items,  
14 shamelessly, from NeuroQOL and PROMIS. The reason  
15 for that is we wanted to eventually link the two up.  
16 So if you have core items in one instrument, and the  
17 same core items in another one, you can do a linking  
18 function. So if you want to know how they score on  
19 PROMIS, and they have actually been administered  
20 this tool, you can make a link. You can say 40 on  
21 this instrument equals a 60 on PROMIS, whatever.  
22 Now, there may be some benefit for that in the

1 future. There is a lot of interest in how  
2 instruments link up. With our IRT analysis, it is  
3 very possible to do that.

4           So physical demands we started with 174.  
5 We also have PROMIS, NeuroQOL items. And we ended  
6 up -- as you can see, a larger number of  
7 interpersonal interactions, because we -- you know,  
8 we are not sure. We know we're going to have to  
9 throw a bunch of them out that don't work. Then we  
10 have provider items as well. Although, the provider  
11 items we cut down, because we are going to be lucky  
12 to get a provider to rate 90 items.

13           Physical demands we have 124, and 97  
14 provider items. So that's what will go out for  
15 calibration work is that last set.

16           Any questions about that? Yes.

17           DR. GIBSON: I have two. Thank you for  
18 being patient with me. My first one is a  
19 philosophical one. One of the things that SSA will  
20 eventually struggle with is the linking of work  
21 analytic data to their measures of residual  
22 functional capacity. Do you see IRT methodologies

1 of having PROMIS for being able to do those linkages  
2 as well?

3 DR. HALEY: Well, I do see the possibility  
4 of linking these skills. These physical demands to  
5 job demands. And it's not necessarily an IRT  
6 process. It's really a consensus process by  
7 experts. It's called benchmarking; there are a  
8 number of methods; but it's a fairly structured  
9 agreement process where experts get together and  
10 they look at the skills on a continuum. And they  
11 compare it to job demands as people -- you know,  
12 then there can be some linkages.

13 DR. GIBSON: My second question is,  
14 looking at your slide number 34 where you describe  
15 some of your sample items, I'm curious what  
16 influences your choice of the different scales or  
17 measures that you utilize there. Some of your  
18 scales are very objective in nature, and some of  
19 them would be described as more subjective measures  
20 when you ask people to compare their capacity, for  
21 example, to someone else. So what entered into your  
22 thoughts? What references did you use? If they're

1 in the report, you can just tell me they are in the  
2 report, and I will look there. But I'm curious what  
3 influenced your scales.

4 DR. HALEY: I would say 95 percent asked  
5 about rate the level of difficulty. We just wanted  
6 to show you some other possible scales. The one  
7 scale that does refer to other people is to what  
8 extent do you walk? Have you walked against the  
9 speed of others? We found that item in other  
10 instruments to be very effective and clear. So  
11 that's why we included it.

12 DR. BARROS-BAILEY: Deb, and then Tom.

13 MS. LECHNER: You talked about the up and  
14 down process. I don't know what slide number, but  
15 it's on our page 15 where you start with your  
16 initial item total. You had like the 361  
17 interpersonal items, and 174 physical demands. Can  
18 you talk to us a little bit about that dwindling  
19 down process. Because I know that SSA internally is  
20 working on a similar type of dwindling down of  
21 items. I'm just curious about how you all went  
22 about that dwindling down process, if you can speak

1 to that a bit.

2 DR. HALEY: Well, through a series of  
3 meetings we got the content experts together and  
4 ourselves; and we tried to organize the items in  
5 certain ways. We looked at it by content so we got  
6 things out that were too close in content. We did  
7 it by what coverage in the scale we anticipated that  
8 item to be in. So if we had too many easy items or  
9 too many hard items that influenced our decision.  
10 Because eventually, we want a hierarchy of all the  
11 items, and a good spread across the continuum.

12 I think those were the two major factors.  
13 And if we felt certain items just weren't worthy of  
14 the bite, you know, if we had other items around it  
15 that we felt were similar, we would eliminate it.

16 MS. LECHNER: Then kind of a follow-up  
17 question. Have you had any pilot studies where you  
18 have compared the self-report to actual performance  
19 on the functional testing?

20 DR. HALEY: Well, not within this. That  
21 should be done eventually. We have in other work  
22 that we have done in practice studies and others.

1 We, you know, found pretty reasonable correlations,  
2 point eight; point seven. They are not huge, but  
3 they are not -- you know, they are usually pretty  
4 good.

5 MS. LECHNER: And if you get a discrepancy  
6 between, let's say, a claimant report on these items  
7 and the provider report, how do you reconcile the  
8 differences between the two?

9 DR. HALEY: Well, that's not our decision.  
10 Certainly -- that's not our decision. It's  
11 certainly something we could advise on in terms of  
12 what SSA wants to do; but I think this is -- a real  
13 advantage of this approach is that you will be able  
14 to compare more easily, I would say, what a provider  
15 and a claimant says. And how people -- that could  
16 be just information that's brought in. It could  
17 lead to a decision of additional testing. It could,  
18 you know --

19 MS. LECHNER: And then as a follow-up,  
20 have any of the folks that you have used this  
21 protocol with been claimants or people who are  
22 applying for any kind of Workers' Compensation or

1 disability claims?

2 DR. HALEY: Not to date.

3 DR. RASCH: However -- I will just say,  
4 however, he is going to talk about it in a moment.  
5 We're just about ready to field a large calibration  
6 study where we will be testing the item pools on the  
7 applicants and their health care providers. And  
8 we're also trying to capture secondary health care  
9 providers, so that we get a better understanding of  
10 how well providers are able to answer questions  
11 about a claimant's functioning.

12 Because our premise is that therapist and  
13 other types of health care professionals might know  
14 more about claimant's functioning than, say, a  
15 primary care provider. And so we're trying to  
16 gather that data.

17 DR. BARROS-BAILEY: Tom, then Abigail, and  
18 then Shanan.

19 MR. HARDY: I will be very quick. Deb  
20 asked two of my questions.

21 I don't know anything about your report.  
22 I can't wait to read it. Sounds great. Back to

1 page 15, the items and instruments in that blue  
2 slide. I think I heard you say, quote, items from  
3 the universe of instruments. In your report you go  
4 into detail as to what instruments you have looked  
5 at and some commentary under that. Is that in  
6 there?

7 DR. HALEY: Yeah, the entire list of  
8 instruments that we examine is in there, and  
9 references.

10 MR. HARDY: And that would include  
11 anything dealing with the emotional, cognitive, all  
12 of those are as well.

13 DR. HALEY: Those are all there.

14 DR. PANTER: I just wanted to remind  
15 everyone that because it's such a high stake  
16 setting, this is now -- needs to be considered -- I  
17 think you are probably considering this all along --  
18 but this would be different than any kind of  
19 research setting where you might use these measures,  
20 or even some of the clinical settings where you  
21 might use the measures. So I would like to just  
22 emphasize that being high stakes, the CAT

1 methodologies also needs to consider the issues that  
2 high stake settings required for CAT and security  
3 issues.

4 DR. RASCH: So I would just say that we're  
5 viewing this as a decision making aid for SSA. It's  
6 a tool that would help augment decision making  
7 that's already being performed by the individuals  
8 who are responsible for that within SSA, and simply  
9 that. The kinds of issues that you are talking  
10 about are really policy decisions within SSA,  
11 whether it would be implemented, how, how it's used,  
12 et cetera.

13 DR. PANTER: I agree. I'm just saying  
14 that it brings with it many different requirements  
15 of important implications. So it's just something  
16 down the line to be considering.

17 DR. HALEY: Yes. We appreciate that.  
18 Okay.

19 DR. GIBSON: My last question on this  
20 section, I promise. Following up on Deb's question  
21 about dwindling down of the item pool. So do I  
22 understand correctly that the decision was purely

1 rationale? There was so consideration of  
2 psychometric properties of the items at that point.  
3 And that that won't occur in terms of looking at the  
4 item's strengths and weaknesses, methodologically or  
5 psychometrically in the calibration phase when  
6 actual data is collected?

7 DR. HALEY: That's correct. We have no  
8 data right now. Once we get to calibration data  
9 that would allow us to decide what domains are  
10 really being covered here, and if the items really  
11 fit the scales.

12 DR. BARROS-BAILEY: Sylvia.

13 MS. KARMAN: Hi, thank you, Steve and  
14 Beth, for both coming.

15 I just have -- in this area I have one  
16 question about how we -- how you are going to  
17 determine the -- as I see, you did the cognitive  
18 interviews. I am sure that was intended to get at  
19 whether or not the people were understanding the  
20 questions correctly; but I think, you know, one of  
21 the items that you mentioned, you know, after 20  
22 minutes of reaching -- you know, are you able to do

1 work reaching overhead after 20 minutes, like  
2 organizing closets. You kiddingly said, you know,  
3 after about 20 minutes I would give up. I am  
4 thinking yeah, I would give up too, but for a  
5 different reason.

6           So possibly what your question or one's  
7 question is trying to get at I know we will be faced  
8 with similar things when we look at items, or we  
9 develop items. You know, we're thinking that the  
10 item is getting at a particular question, but we're  
11 not sure. How is your study going to get that? So  
12 that's one question.

13           Another one I had was some of the elements  
14 that you had pulled from the Panel's recommendation  
15 and physical demand, some of these things we saw as  
16 measures, not as, I guess, content areas  
17 specifically. Like I see duration of a typical day  
18 or varying force requirements. So I don't know if  
19 that's just a definitional thing or what.

20           DR. HALEY: Well, it -- well, let me  
21 answer your last one first. We did look at your  
22 report. And we thought that was very helpful. We

1 knew that if we were to build repetitive items or  
2 different weights we had to do it in the context of  
3 the question. So it was the only way we could  
4 really approach it. We didn't want to do separate  
5 scales.

6           So there is a 50 pound -- series of 50  
7 pound items, five pound items. So there is a whole  
8 series of those at different heights and lifts and  
9 things like that to incorporate different levels of  
10 functioning.

11           DR. BARROS-BAILEY: Tom.

12           MR. HARDY: Very quick question to you,  
13 Sylvia. I'm just trying to figure out where this  
14 fits in the world.

15           Should at some point SSA be interested in  
16 utilizing this, would this be kind of like an  
17 augmentation to the activities of daily living sheet  
18 or something like that? How would this kind of fit  
19 into the program? I don't quite get that. Maybe I  
20 shouldn't.

21           MS. KARMAN: I am still waiting -- I'm  
22 going to want an answer to my question too. But I'm

1 not sure. As I think both Art Spencer and myself  
2 when we introduced all of this presentation, it is  
3 really exploratory. The Agency knows that it needs  
4 to explore ways to obtain better functional  
5 information from claimants in a way that is not so  
6 onerous to the claimant, and also is not so onerous  
7 for the adjudicator to sift through.

8           So this is just one aspect of that, but it  
9 may very well be something that, perhaps, the Agency  
10 can use to augment, for example, getting information  
11 about activities of daily living; but I don't know  
12 that.

13           DR. HALEY: All right. Repeat your first  
14 question.

15           MS. KARMAN: All right. My first question  
16 went really to how -- ways in which you all are  
17 planning to determine whether a question is actually  
18 getting at the type of information that you are  
19 wanting. And I cited the question or the item that  
20 you had about, you know, are you able, you know, to  
21 work overhead, you know, after 20 minutes. You made  
22 a joke about well, I would quit if I had to clean my

1 closet out for 20 minutes; and I would too. But  
2 maybe you and I might be quitting for the same  
3 reason, but not the reason that you guys are trying  
4 to get at in this question.

5 DR. HALEY: Well, we hope we orient people  
6 towards, you know, the physical part of this.  
7 Although, they could stop, because they just get  
8 bored, I guess. We did focus groups and  
9 particularly cognitive interviews. They said 20  
10 people told us 20 minutes was about the right time.  
11 They wouldn't do it more than that. So we had tried  
12 originally to get information from the cognitive  
13 interviews for the examples, because that's what's  
14 so hard.

15 Now, whether that item is valid, you know,  
16 I'm not so sure we can tell unless -- you know,  
17 there are a couple ways. We will have empirical  
18 data. If it fits a model it should be -- you know,  
19 and it works in a continuum that makes sense, then,  
20 there is a certain amount of validity to that. You  
21 know, we will scale the items from easy to hard.  
22 And if it's an item that is put in place that makes

1 sense, it would be about that difficulty. Then we  
2 would accept it for that.

3 MS. KARMAN: Thank you very much. Another  
4 reason why I'm asking this, in addition to -- I know  
5 you all need to confront these kind of things, but  
6 also because the reason for the limitation -- the  
7 limitations, of course, the ideology for our  
8 purposes link back to a medical impairment. So  
9 that's -- you know, it's just -- I'm also cognizant  
10 of the fact that the questions -- your questionnaire  
11 is posing to people is to them. So individuals are  
12 filling it out about what they perceive their  
13 functioning is; and of course the kinds of items  
14 that we would be writing would be going towards what  
15 we would be trying to determine about work or  
16 evaluating about work.

17 So I understand that's a little different  
18 than having individuals completing a questionnaire;  
19 but that's one of the other reasons that I was doing  
20 it, because I know we are going to need to link the  
21 areas in which we are evaluating about work to the  
22 particular domains that we're interested in,

1 especially the things that are not so easily  
2 exertable, the cognitive ones. So thank you.

3 DR. HALEY: Okay.

4 DR. BARROS-BAILEY: I think I just turned  
5 you off.

6 DR. HALEY: I want to talk just briefly  
7 about the calibration study. This is a real  
8 challenge for us, because we have to get claimants  
9 and providers. We're looking for guidance. This is  
10 always the hardest part about building a CAT  
11 programming is getting people to respond to all the  
12 items. This is not a short form. This is a long  
13 form in order for us to calibrate them. So we're  
14 looking at SSA helping us with giving us a sample of  
15 claimants. Then those claimants will then help us  
16 with identifying their providers, geographical  
17 diversity, et cetera.

18 We want to sample 1,000 claimants for each  
19 of our three scales, and at least 500 providers, and  
20 some supplemental ones if we can. We know we're  
21 going to have a lot of denials with the providers.  
22 So we are hoping -- 500 would be a good target.

1 This will then give us information that will allow  
2 us to create calibrated banks for each domain, and  
3 will give us the information that will allow us to  
4 create CAT. So this is fundamental in moving  
5 forward with this work.

6           So we have been working closely over the  
7 past few months both with NIH and SSA to develop  
8 sampling procedures, and with Westat to help us  
9 collect the data. We will administer items by the  
10 web or telephone interview. Then we will implement  
11 analysis and build bank items.

12           So this just a little bit more information  
13 about our strategy. Westat is going to contact each  
14 claimant, the calibration survey administered by web  
15 or telephone. And anybody who doesn't have  
16 internet, et cetera, we can do it by telephone. So  
17 that's just briefly what we plan to do.

18           So let's talk a little bit about CAT.  
19 Now, CATs have been around for a long time; and, you  
20 know, they were built in the 60's and 70's in  
21 educational testing. So they are not new. And  
22 health care has grabbed them very quickly, and has

1 really found that it might be a great application  
2 for many purposes.

3           In most cases seven or ten items would  
4 allow you to get a very precise score of an item  
5 bank or an item pool that would have hundreds of  
6 items. And the reason is, is that we can select  
7 items that are better items to answer than just any  
8 item that is on an instrument. And I will show you  
9 how that works.

10           So there is a way it has to be scored.  
11 There is an item selection criteria, and there is a  
12 stop rule. So we can customize this. If people  
13 want to stop at ten items we can stop and get the  
14 score. If people want to do it on precision, we can  
15 do it on precision. We can do it by standard  
16 barrier, or we can do a combination. There is all  
17 kinds of strategies to stop the thing.

18           CAT administers a small sample of items  
19 because it relies on information, previous  
20 responses. The items that are administered are  
21 chosen based on how a person responds; and CAT  
22 reduces the number of assessment items needed for an

1 accurate assessment. So it's efficient.

2           Now, I'm going to show you how this is  
3 based. I know it's kind of late in the afternoon to  
4 do this to you. Think of an item that's  
5 administered. And this is from the calibration  
6 work. We can turn this item into a probability  
7 statement. If you look at a person who is scoring  
8 low level, around ten or so or whatever dimension  
9 you want, the probability of endorsing and able to  
10 do, as you can see, is very high. It's near  
11 100 percent. With much difficulty and little  
12 difficulty, there are little curves. So as people  
13 increase, their probabilities increase in the  
14 categories that they will endorse. They will check  
15 that weighting scale.

16           Then as you move further into a person  
17 being better on this particular domain, there is a  
18 high percentage, high probability that people will  
19 say they don't have any difficulty here.

20           So these are item response curves. And  
21 every item have one of those curves associated with  
22 it that comes from the empirical data. And it's the

1 information that guides the score that we have. Is  
2 that okay?

3           So we're talking about probabilities, and  
4 each item will again have a very different signature  
5 as to what they bring forward to the assessment.  
6 Some items will be further to the right. Some will  
7 be further to the left, which means if they are  
8 further to the left, they are an easier item.

9           Now, what happens in a CAT is we start in  
10 the middle, and we know nothing; then, we have a  
11 score around 50. That's a normal curve. And all  
12 the things you see up above are items. Now, they  
13 are all the same shape, because we were lazy; we  
14 didn't build different ones. They will all be  
15 different -- slightly different.

16           If we wanted to administer an item in a  
17 CAT we would have an item that we would use  
18 typically; and let's say the person sat with some  
19 difficulty. There would be a mathematical function  
20 in the computer that would create this curve. This  
21 is for estimation. And one item we would score this  
22 person 44.2 with a standard error of 4.3. So we

1 could score somebody with one item, but our standard  
2 area is pretty big. We wouldn't want to feel very  
3 confident about this particular score.

4           Now, we have the one item, and we have the  
5 first prior -- or the norm curve; and we then say,  
6 okay, let's have another item. It could take -- any  
7 of these items up here -- there is only three,  
8 because we only had room -- but think of it as we  
9 having 20, 40, 80 items up there to choose from.  
10 And each of these items has an information function  
11 associated with it, which tells you where that item  
12 is most valuable along the continuum.

13           So the item that is going to be chosen is  
14 the one that's closest to the score estimation. So  
15 if that item is chosen, that response scale is  
16 chosen, we have about three bits of information, and  
17 then we have a new score. So we went from 42.2 to  
18 45. Now -- and the score comes from the peak of  
19 that curve. That's what the estimation is.

20           The width of the curve has to do with  
21 standard error. The other thing that's happening  
22 here is the standard error is decreased, which means

1 that the estimate is getting more precise.

2           So let's say we want another item. Again,  
3 we're getting a slightly different estimation, but  
4 we're getting a standard error that's decreased to  
5 2.5. So this will continue like that. All of these  
6 items will be part of your score. Now, after four  
7 items, we get a 46.9 and standard error of 2.1. And  
8 I won't go any further, but let's say our standard  
9 precision level is less than two, we would probably  
10 do one or two more items and achieve that.

11           So those are the mathematics. Those are  
12 the things that are happening under the black box of  
13 CAT. People are choosing a rating scale point,  
14 getting a new score estimation, and then a new item  
15 is selected based on that new score estimation.

16           Now, what you notice there is that all the  
17 items are coming from sort of the central part of  
18 the item banks. We didn't get an item from the far  
19 left or far right, because we didn't need to. It  
20 wouldn't have given us any information. Remember  
21 how some of the probability things were -- you know,  
22 if they are either going to say no difficulty or

1 very difficult, can't do, it's not going to provide  
2 us any information. You have to go after those  
3 items that really can provide us with information in  
4 the area of the continuum. So the items are focused  
5 right where we think the ability levels are. That's  
6 what makes it efficient.

7           And so again going back to this thing you  
8 saw, the calibrated items then will give us the  
9 ability to do the CAT work.

10           Any questions about that?

11           DR. BARROS-BAILEY: Shanana.

12           DR. GIBSON: Sorry, I am the question  
13 person seems like.

14           If you bear with me I want to kind of walk  
15 through and make sure I'm following you in my own  
16 IRT for dummies kind of CAT model here, because I  
17 have an information curve with my Master's thesis 16  
18 years ago or something.

19           But I'm going to use an old example with  
20 the SATs. I think everybody on the Panel can relate  
21 to that. Stop me and correct me if I am getting too  
22 simplistic. Someone sits down and take the SAT now,

1 they are sitting at a computer screen, and they give  
2 them a question that's middle difficulty. If they  
3 get it right, it then chooses a harder question. If  
4 they get that wrong, then it goes to a question in  
5 the middle. And it keeps asking questions going  
6 higher and lower based on the amount of information  
7 each question possesses until it narrows in very  
8 precisely on what the score is, or what the person's  
9 score should be.

10           It could be within a standard error, we  
11 become certain; or in their case maybe that standard  
12 error goes up to "X" number of questions. That's  
13 kind of the goal there, to move it up and down,  
14 right --

15           DR. HALEY: Right.

16           DR. GIBSON: -- until you get there, at  
17 least in an academic setting like that?

18           DR. HALEY: That's correct, exactly.

19           DR. GIBSON: So my follow on question has  
20 to do with methodology that you are utilizing for  
21 calibration, coming up to where I was going. Again,  
22 if I'm wrong just tell me I'm wrong, because I'm

1 trying to work this through in my brain.

2           From my perspective, the development of  
3 the calibration for an instrument is based on the  
4 assumption of a normal data distribution, because  
5 you are finding the information in a normal  
6 situation. If your calibration that you are going  
7 to be utilizing are claimants in Social Security we  
8 can't assume that's a normal data distribution, and  
9 how is that going to impact the calibration?

10           DR. HALEY: Well, in most of our previous  
11 work, even though we used disability samples, we  
12 still have normal distribution. It -- if it  
13 deviates from that slightly, or even a little more  
14 than slightly, it's not a real problem. As a matter  
15 of fact, a distribution -- I don't know if you are  
16 talking about scores here or items. But if you have  
17 a distribution that is a little flatter than normal,  
18 sometimes it's the actual data. So there is no real  
19 assumption of normalcy.

20           DR. BARROS-BAILEY: Tom.

21           MR. HARDY: I'm completely lost, but  
22 that's okay. I guarantee you I'm going to read

1 everything, and I will try to catch up and  
2 understand this.

3           So this may be -- I know this is a stupid  
4 question, because I don't know what I'm talking  
5 about; but I'm trying to sort of figure this out in  
6 my head. I get the theory, you ask a question. You  
7 are telling us the probability then is to kind of  
8 figure out as to what the next question should be.

9           For the purposes of some of the  
10 information we are trying to gather, sometimes we  
11 want to know that a person can't do something; and  
12 sometimes we want to know the full range of  
13 updating. Am I losing something or is that  
14 information also sort of captured there or am I  
15 lost?

16           DR. HALEY: Well, think of a ruler or a  
17 continuum of some kind, and it is physical  
18 functioning; talk about walking around a person's  
19 house versus walking in the community. If a person  
20 can walk in the community they most always can walk  
21 in the house. Almost always. Not always, but  
22 almost always. So that's what the IRT model will

1 suggest. That we don't have to ask all those  
2 questions below a particular point, are they having  
3 trouble.

4           Let's say they are having a little trouble  
5 going up and down stairs. Let's say two steps,  
6 which for most people it is easier to walk around  
7 the community. May not be, it may be. We have to  
8 look. If they can go up and down stairs, these two  
9 steps, it's not worthwhile usually to ask about all  
10 those other questions, because they're  
11 functioning -- they're functioning at a particular  
12 level that would indicate there is a high  
13 probability that that doesn't happen.

14           Now, if people do that -- if a person  
15 can't walk indoors, but can walk outdoors, what the  
16 program will do is it will identify that as a very  
17 unexpected response. And if people are doing that  
18 constantly, then, there is a flag that comes up that  
19 says this is a really strange pattern of responses;  
20 and that we have got to be very careful about how we  
21 interpret them.

22           So it could be legitimate for some reason

1 if that's the case. But often when you get these  
2 kind of patterns that are not logical, it is usually  
3 based on people just randomly putting in answers.  
4 So we can certainly flag those circumstances.

5 DR. BARROS-BAILEY: I had a question. I'm  
6 familiar with CAT because that's one of the methods  
7 that my credentialing organization was considering  
8 in terms of going from paper based testing to  
9 computer based testing in terms of the different  
10 models; and it was incredibly impressive, the  
11 psychometrics and the statistics for those models.  
12 They decided for other reasons to go with another  
13 model. And I'm wondering what kind of models did  
14 you examine when you decided to go with the CAT  
15 model? Why the CAT seemed to stand out to be  
16 superior for your project?

17 DR. HALEY: Well, based on our experience  
18 in doing CATs for other applications, it seemed like  
19 exactly the way to go.

20 Now, some people will argue that, you  
21 know, the CAT requires computer power, and it's too  
22 much burden. And so people develop short forms

1 based on IRT that are fairly good. But short forms,  
2 you know, run you into the same place where  
3 everybody has to take the same item, and CATs avoid  
4 that.

5 So, you know, based on what people are  
6 doing in the quality of life and the functional  
7 fields, and what people have done for education,  
8 this just seemed like a really -- this methodology  
9 seemed to match the problem.

10 MS. LECHNER: Going back a little bit, not  
11 on the topic of calibration, but just on the topic  
12 of your responses in looking at the one, for  
13 example, of, you know, how quickly you are able to  
14 walk or your ability to work overhead for 20  
15 minutes. You know, with SSA's process they will be  
16 matching or trying to match or compare claimant  
17 abilities to occupational demands.

18 And so have you given some thought about  
19 how your responses might have to be modified to use  
20 the same -- you know, same rating scale, in other  
21 words, that have or will be used for the job  
22 analysis side of it. So that the claimant's self-

1 reportabilities could be compared to the way that  
2 the jobs are rated.

3 DR. RASCH: So we understand very well --  
4 it's part of why we wanted to be here today -- that  
5 the job demand side has to line up with the person  
6 capability side. Those are the two pieces of the  
7 equation to yield an understanding of one's ability  
8 to work, right. Those are the two pieces of the  
9 equation that yields participation. That was what I  
10 was trying to say earlier. So we understand that  
11 these two pieces are necessary, and that they need  
12 to line up.

13 Our work has been on the side of measuring  
14 capabilities of individuals in a comprehensive  
15 uniform, fast, efficient way, and getting  
16 information from both claimants and providers.

17 We look to this group for the job demand  
18 side, and we hope that your work would line up with  
19 ours, because both pieces are critical to informed  
20 decision making; but how that is going to work out  
21 is, I think, as yet undetermined, because they are  
22 separate efforts.

1 DR. BARROS-BAILEY: Dave.

2 DR. SCHRETLEN: Thank you. This is a  
3 wonderful presentation. I really appreciate it. I  
4 thought for a long time that this is potentially --  
5 it's a very exciting approach to assessment, and  
6 enormous potential utility to SSA.

7 My understanding -- expert understanding  
8 of CAT terminology is not particularly deep nor  
9 particularly current. But you earlier used an  
10 example that was certainly very consistent with my  
11 understanding, and that is that CAT owes itself best  
12 to constructs that are very homogenous in which you  
13 can have items that are very clearly arranged in a  
14 hierarchical order of difficulty. So that really no  
15 one who is unable to lift 20 pounds is likely to be  
16 able to lift 50 pounds or 100 pounds. That makes a  
17 lot of sense to me. If you can't run 100 yard dash;  
18 certainly, you are not going to be able to run a  
19 marathon.

20 But how does this translated into some of  
21 the interpersonal characteristics? That's not as  
22 clear to me. Is the idea that you are going to

1 define interpersonal sort of emotional  
2 characteristics in a clearly hierarchical fashion?  
3 And that's just not -- I don't quite understand how  
4 that -- how CAT technology addresses emotional  
5 personality and interpersonal characteristics in the  
6 same way that it addresses relative strengths or  
7 persistence ratings.

8 DR. HALEY: Well, I agree with you. It's  
9 a big challenge. And people that worked in this  
10 area -- the PROMIS example is a good one -- is they  
11 have really struggled to get a good hierarchy in  
12 some of their social banks. So that's why we have a  
13 lot of items to, obviously, test. So we could cast  
14 off many if they don't fit a continuum.

15 But you are absolutely right, if we don't  
16 have an unilateral -- an unidimensional scale by  
17 which we could predict where items are going to go  
18 along the continuum, we won't be able to build a  
19 CAT.

20 DR. SCHRETLEN: Okay. So thank you.  
21 That's very helpful.

22 So it is the case -- it is not just my

1 understanding is out of date or something, but you  
2 really do need sort of unidimensional constructs  
3 that are hierarchically arrayed with items that are  
4 assessed at different points along a continuum of  
5 ability, because it is really ability measured more  
6 than --

7 DR. HALEY: Behavior as well, I think.

8 Now, the promising thing is that there are  
9 newer models of IRT that allow a little less  
10 unidimensionality. It's fairly unidimensional.  
11 There are multi-factor models that are starting to  
12 be used now, because the field has struggled with  
13 this. You know, they can't find full unidimensional  
14 constructs; but they can find enough of a  
15 unidimensional scale if you use multi-dimensions and  
16 the statistics are good enough to put into a CAT.

17 Now, some of the standard errors are a  
18 little larger, and people accept that as well. So  
19 it's much more difficult, I agree; and we may fail.  
20 But we hope we can pull out enough items that make  
21 enough sense to people that it's a construct to  
22 start with.

1 DR. SCHRETLEN: Are you saying, then, that  
2 what you do is you have a large pool of items, sort  
3 of principal component analysis, factor analysis;  
4 and then those individual factors, if you will, you  
5 think are -- you can assess using a CAT approach?

6 DR. HALEY: Correct. It may very well be  
7 that in interpersonal interactions we had two --  
8 let's say we have two major factors; they are quite  
9 distinct. We would have two CATS for that area.

10 MS. LECHNER: Based on the number of items  
11 you currently have, do you have a sense of how long  
12 it takes the claimant or the health care  
13 professional to complete it? And do you have a,  
14 it's this long now; we want to eventually get it to  
15 "X" length?

16 DR. HALEY: Well, remember the calibration  
17 study is in the developmental phase. It's not  
18 something that claimants ever would see on a routine  
19 basis. This is just to get us to a point where we  
20 can build a CAT. No more than 45 minutes currently;  
21 and probably between 30 and 45 is the burden that I  
22 see right now on the claimants.

1 DR. PANTER: Should I?

2 DR. HALEY: Sorry. A CAT would take less  
3 than two minutes.

4 DR. PANTER: I am just wondering if you  
5 were confused on the point that this is one stage  
6 where there will be more items than would typically  
7 be asked; and then later will just be a few items  
8 would be asked in just a few minutes per construct.

9 MS. LECHNER: A few minutes per construct.  
10 In other words --

11 DR. PANTER: That in the end a successful  
12 CAT would require only three items, four items per  
13 major area, or it depends on how well they can  
14 estimate. But it would not take too many items  
15 generally to get at the estimate for each of the  
16 major areas.

17 DR. BARROS-BAILEY: Go ahead, Beth.

18 DR. RASCH: I want to add to that.  
19 Precisely. Thank you.

20 So if we developed -- we don't know how  
21 many CATs we're going to end up with; but if we  
22 developed the proposed six CATs, it might take 18

1 minutes for the claimant to complete -- cover all  
2 the domains of functioning in the six CATs, because  
3 it would take two to three minutes per CAT. So it's  
4 very -- that's the benefit of it. It's very  
5 efficient, and it really offloads the respondent in  
6 terms of the number of items they have to answer.  
7 And same with providers.

8 DR. SCHRETLEN: I wonder if we could  
9 return to a question that Shanan asked a little  
10 while back about the pilot study -- the calibration  
11 study, rather, that you are going to be doing. It's  
12 using claimants and providers. And Shanan asked  
13 about maybe -- I thought I understood her to be  
14 asking about what -- about people who are not  
15 claimants or providers, but rather ordinary, healthy  
16 people.

17 And you had said that you don't -- you  
18 don't necessarily need a normal distribution for the  
19 individual items; and I understand that. But don't  
20 you -- but you don't want to attenuate the range of  
21 potential responses either, do you?

22 Wouldn't it be desirable to have a sample

1 of individuals who actually represent the very broad  
2 range of functioning in each of these domains,  
3 including people who were healthy and nonclaimants  
4 or not disabled at all?

5 DR. HALEY: Well, you know -- it's  
6 certainly a matter of resources. Having a normative  
7 sample for these items would be great. If that's  
8 what you said or meant, I apologize for  
9 misunderstanding.

10 But given our time frame and our  
11 resources, we felt that the majority of resources  
12 ought to go to claimants. I mean, these things are  
13 built best if they are built for the people. That  
14 the calibration work is for the people that its  
15 intended for.

16 If we did a normative sample, and let's  
17 say a large one, it could mask out all our  
18 disability people. And then our information would  
19 be so skewed -- you know, because most people  
20 wouldn't be disabled in these items.

21 DR. SCHRETLEN: Yes, I really do  
22 appreciate that. I certainly wasn't implying that.

1 Just asking why, just based on the normative sample,  
2 just that -- I suppose down the road -- I mean, this  
3 is a calibration phase you are talking about; but  
4 down the road at some point you will want to know  
5 how claimants self-ratings and their provider  
6 ratings compare to the self-ratings and informative  
7 ratings for people who are not claimants, I assume.

8 DR. HALEY: It would be interesting  
9 information. You could indicate at what percentile  
10 they would be. You know, you have to have age --  
11 would have to be based on age as well as other  
12 factors. So it would be complicated, but it could  
13 be done.

14 DR. BARROS-BAILEY: Sylvia, I'm going to  
15 have you ask a question, then we're going to move  
16 on. I am kind of the time keeper here so you have  
17 the opportunity to finish your presentation. So  
18 Sylvia.

19 MS. KARMAN: Thank you. Very quickly  
20 then. Given the stage that we're in at this point  
21 in terms of developing a content model as one of  
22 the -- you know, initially at least areas that we're

1 interested in your methodology, certainly, among the  
2 things that we will be needing to deal with is  
3 refinement of our content model. I'm wondering if  
4 you could speak to that. Regardless of what we end  
5 up with instruments, you know -- I mean, I'm not  
6 speaking to whether or not this method or that for  
7 the actual questionnaire. Just for the content  
8 model in terms of refinements, what are your plans  
9 with regard to that as you get information back from  
10 your pilot?

11 DR. HALEY: Well, once we get data back  
12 from the calibration work that is really going to  
13 guide us as to what types of items sort of hang  
14 together, and what's going to give us the best shot  
15 at getting some kind of unidimensional scale, and we  
16 hope it looks like personal interactions. It  
17 should. But we won't do much more with the content  
18 model at this point. What we will do, though, is  
19 when we look at the items that we throw out, we will  
20 make sure we don't throw all of them out from  
21 certain content areas. We will be aware of that.

22 And so we will get it down to, I don't

1 know, maybe 70 items or so that will go into the  
2 CAT. We will try to make sure that we have a broad  
3 spread of content. But we will throw items out if  
4 they don't fit, if they don't work. Because if they  
5 don't work in the scale, it's going to make the CAT  
6 less precise. So we have to be careful to get items  
7 that don't fit well with the scale.

8 DR. BARROS-BAILEY: We're almost at 3:00,  
9 but we have, in terms of looking at our agenda,  
10 maybe some flexibility here. I think I would like  
11 to maybe have the Panel and the team present engage  
12 in some decisions. After the break we have maybe  
13 about a 15 minute opportunity to have further  
14 discussions. It seems to me I don't want to shut  
15 down the discussions that are going on, because I  
16 think they are really important.

17 Do we want to go ahead and break now, and  
18 come back and have further discussions in terms of  
19 the presentation? Finish the presentation and have  
20 further questions? Or do we want to go ahead and go  
21 over the next 15 minutes, then take a break and come  
22 back for public comment?

1 DR. RASCH: Steve says that he can get  
2 through the remainder of the slides pretty quickly,  
3 if you want to do that and then come back for  
4 discussion after. That's just a proposal.

5 DR. BARROS-BAILEY: I think that's a great  
6 idea. I saw a lot of heads nodding. So Steve, if  
7 you would finish up the formal slide presentation,  
8 we will take a break, and we will come back for 15  
9 minutes before public comment. Thank you.

10 DR. HALEY: Okay. Interpreting scores.  
11 What you see in your slide is what we call item  
12 measure. It describes the item and what people are  
13 scoring on the item. And it's the kind of thing  
14 that will allow us to look at different regions of  
15 the scale, and to look at the items that are either  
16 unable, which is a blue -- at least on my screen.  
17 Purple is a lot of difficulty. There is the clear  
18 is a little difficulty. Then the final blue is no  
19 difficulty.

20 So those are expected responses at  
21 different levels of the continuum. So if a person,  
22 let's say, scored a 50, you just draw a line up

1 through those items, you would see what would be  
2 expected, what that person's profile would be.

3           So around a 50 if experts looked at those  
4 sets of items they could decide well maybe that  
5 person is able to remain on their feet. They could  
6 stand a while. And there would be a series of items  
7 that you could then used to describe sort of that  
8 region and ability. And that's been done a lot in  
9 areas -- we have done it some, and there have been  
10 many others who have created levels of that  
11 continuum. So let's say a cut point would be 34.  
12 Between 34 and 52, this is how I would describe  
13 claimant's abilities.

14           So that gives some level of  
15 interpretation. And that would be done with a  
16 bookmark method where you would get consensus of  
17 people looking at your items, and then describe what  
18 those scale's are, and how to think about them.

19           Now, this is the place where we have, I  
20 think, one of the chances to integrate with your job  
21 description. So let's say a person is between 34  
22 and 52. We have described what they can do. Let's

1 say they can walk 100 feet; they can do steps, et  
2 cetera, et cetera. What would -- how would that  
3 relate to other -- to job demands? What job would  
4 need a person to be able to do these functions at  
5 that level? So I think this might be the thing that  
6 would allow us to communicate between abilities and  
7 job -- job demands.

8           Now, this has been done -- I won't talk  
9 about this much, but this has been done in reading  
10 and math. So many areas where they have a reading  
11 ability -- let's say they can do a particular type  
12 of phrase. They understand certain phrases that are  
13 complex. And people then have -- well, if they can  
14 do that, then here are the books that they should be  
15 reading.

16           So they translate from the ability to what  
17 it is that is available out in the community in  
18 terms of reading that a person then would be able to  
19 do. The analogy would be work abilities, and then,  
20 you know, job demands; and we would be happy to talk  
21 with you much more about this in the future if you  
22 are interested.

1           So we will be doing, as part of our  
2 initial work, a small feasibility study. This will  
3 be with 120 claimants; and this will be with the  
4 actual CAT log. This will not be the calibration  
5 items once a CAT is built. We will compare it with  
6 measures that are used in the field. Probably a  
7 PROMIS type measure or some others, just so that  
8 gives the CAT some validity with existing measures  
9 that are out there.

10           So this is what we have covered. Our next  
11 steps are develop and calibrate clearly, to work on  
12 other dimensions. Then there will be at the end of  
13 this a large demonstration project comparing the use  
14 of CAT with typical procedures; but that's way down  
15 the road once all the CATs are done. And again,  
16 just to make sure you understand this is exploratory  
17 work and examines how we might approach getting  
18 functional information from claimants and health  
19 care providers.

20           And this is where we work at BU on the  
21 medical campus. One of the nicer buildings on the  
22 medical campus. Please feel free to join us, time

1 permitting. All right. Thank you very much.

2 DR. BARROS-BAILEY: Thank you so much  
3 Steve, Beth, and Beth for presenting. I think --  
4 let me kind of test the Panel. Are there more  
5 questions that the Panel -- yes. So let's go ahead  
6 and take a 15 minutes break and come back and  
7 continue on for another 15 minutes or so until 3:30,  
8 because we do have people signed up for public  
9 comment. So thank you.

10 (Whereupon, a recess was taken.)

11 DR. BARROS-BAILEY: Okay. We're coming up  
12 against some time constraints. So I'm going to  
13 limit this to about ten minutes. And so I would  
14 like to open it up to the Panel to see if there are  
15 additional questions -- follow-up questions.  
16 Abigail.

17 DR. PANTER: It's a quick question about  
18 the claimants. I know that you are trying to  
19 maximize your sample size for your claimants, but I  
20 wonder if there were anyway to identify certain job  
21 types that might be within the large groups of job  
22 types within your claimant samples so that you could

1 evaluate what kind of scores you are getting across  
2 groups and information like this?

3 DR. HALEY: There will be a way for us to  
4 group conditions that people say they are applying  
5 for; but we won't be able to sample those groups as  
6 we go through unless we -- unless we are getting  
7 all -- monitor the data as it comes in. But as  
8 we're getting tapes, information that's likely not  
9 going to have all the information we need to make  
10 good decisions about which ones.

11 I will say that we are trying very, very  
12 hard to make sure we have enough people that have  
13 upper extremity deficits so that we can scale the  
14 upper extremity items; and that we see as a  
15 particular challenge.

16 The other group of people, you know, who  
17 really want this calibration study are people who  
18 use walking devices or individuals who use  
19 wheelchairs. And so we're going to do our very best  
20 to get enough people within our sample in order to  
21 scale those items, because we have wheelchair and  
22 device items in the pool; but they don't click in --

1 they indicate the uses.

2 DR. BARROS-BAILEY: Beth.

3 DR. RASCH: I think your question was  
4 whether we're going to include information on  
5 occupation, and be able to understand how scores  
6 relate to particular occupations.

7 DR. PANTER: Yes, I would like that, just  
8 because the more we know about the job, about the  
9 work situation, the better off we will be in  
10 understanding the scores.

11 DR. RASCH: So we haven't planned that,  
12 but we certainly can.

13 DR. HALEY: Remember, though, a lot of  
14 people haven't worked for a while, so it may not be  
15 very useful.

16 DR. BARROS-BAILEY: David.

17 DR. SCHRETLEN: One of the slides you  
18 showed is the example of a math, verbal ability  
19 scale. And I was struck by that because I'm  
20 thinking that what's going to be difficult is to  
21 capture certain interpersonal and emotional things.  
22 This is about mobility, physical things. Yet, if

1 you look at this, it looks like the items are in the  
2 hierarchy; but it is not clear to me what makes them  
3 hang together as a scale so that at the higher level  
4 of difficulty there is, are you able to walk a mile  
5 without resting? A little further down, are you  
6 able to pull a cord on a lawn mower? And a little  
7 further, are you able to get in and out of a  
8 squatting position? Then, are you able to reach  
9 behind you to get a seat belt?

10 So there are very dispirit kinds of  
11 things. Some are strength, some are ability, some  
12 are flexibility. And although there is a name,  
13 "mobility scale," the implication is that there is  
14 somehow -- there is something unitary underlying  
15 that. Or am I misunderstanding? Is this like  
16 multiple CATs in one slide?

17 DR. HALEY: Well, it is -- it's just the  
18 example. And what you don't see are all the items  
19 that are part of the bank. We just didn't have the  
20 room. It's small print anyway. So those are just  
21 representative of the entire bank, but they are not  
22 the entire bank. And they are as a schematic

1 anyway, because we don't have the data yet. So they  
2 are our best guess, perhaps, as to where certain  
3 items are going to fit.

4 DR. SCHRETLEN: I appreciate that. But I  
5 guess what I'm asking is a slightly different  
6 question. That is, even if you have more items,  
7 then they would be more heterogenetic, not less. So  
8 what I'm wondering is were you just using this for  
9 purpose of illustration in illustrating a  
10 hierarchical arrangement of items? Or is this  
11 actually sort of a speculative CAT for mobility?  
12 Because if it's the latter, it seems like it  
13 combines very, very dispirit kinds of functioning  
14 into a single functional scale.

15 It may be -- at the beginning of the talk  
16 Beth was talking about the emphasis on functional  
17 orientation; but is it functional to the exclusion  
18 of trying to identify homogenous subsets of items  
19 that have to do with pushing, pulling, squeezing,  
20 whatever, and so forth?

21 DR. HALEY: Your point is well taken.  
22 There are a number of upper extremity items clearly

1 in this. And we -- in some respects we didn't have  
2 people; but that will fall into a different  
3 dimension so that it may very well be a different  
4 construct than some of the physical demands. And if  
5 it is, then we will have two CATs, or we will have a  
6 multi-dimensional CAT with two dimensions, and  
7 scores for overall mobility, and scores for upper  
8 extremity.

9           So it is true that we have to have a  
10 meaningful continuum of items to make sense.

11           DR. SCHRETLEN: And it seems to me that  
12 both of those are important. Meaningful and  
13 continuum. Here we have a continuum, but the  
14 meaningful part I'm not sure I get it, unless from  
15 what you just said it's that the constructs will  
16 emerge subsequently. That you don't want to go in  
17 an a priori with some notion of what constructs are.  
18 They are going to emerge from the data. But I'm not  
19 sure that you can guarantee that happening just from  
20 using principal component analysis.

21           DR. HALEY: Well, we do have the  
22 anticipation that there will be an overall mobility

1 and an overall upper extremity dimension. That's  
2 our hypothesis. We will see.

3 For adults sometimes they are merged. We  
4 have seen in PROMIS -- I think they are doing it in  
5 NeuroQOL -- is there they are having one dimension,  
6 even though it's upper and lower extremity. I  
7 haven't seen the data to support that, but I think  
8 there will be two at least. It might be more, but  
9 hopefully two. And those items that don't fit or  
10 don't make sense within a continuum we throw out or  
11 get rid of.

12 DR. BARROS-BAILEY: Steve, I know that you  
13 and Beth need to run to the airport. So if there is  
14 maybe one more question from the Panel that anybody  
15 would like to ask; but I want to respect the fact  
16 that you may need to be leaving.

17 Do we have anymore questions?

18 MS. LECHNER: I just have -- not a  
19 question, but a comment. And that is just that it's  
20 refreshing to hear discussion and talk of SSA moving  
21 somewhat away from the -- totally impairment based  
22 model to talking and considering functional

1 applications for the disability determination  
2 process.

3 DR. BARROS-BAILEY: Okay.

4 DR. HALEY: It's been a real pleasure for  
5 us to be here.

6 DR. BARROS-BAILEY: Thank you. I would  
7 like to thank Beth, Steve, Beth for your  
8 presentation. It was very stimulating. I'm sure we  
9 will be hearing more about your project as it  
10 continues. Thank you for your time, and we will be  
11 in touch. We look forward to receiving those  
12 materials.

13 DR. HALEY: Thanks.

14 DR. BARROS-BAILEY: We are at the point  
15 now in the meeting that we have everytime we meet,  
16 the place where we welcome public comment. We have  
17 had two organizations sign up for public comment.

18 When we have organizations or  
19 representatives from organizations present to us  
20 under public comment, that is allowed for ten  
21 minutes, after which time we have question and  
22 answer.

1           So the first organization is the American  
2 Physical Therapy Association Occupational Health  
3 special interest group with Rick Wickstrom and Karen  
4 Jost, if you would like to provide public comment.

5           There is a button on the console.

6           MR. WICKSTROM: Thank you for the  
7 opportunity to make some brief comments. I'm here  
8 as a representative of the Occupational Health  
9 Special Interest Group, which is under the  
10 orthopedic section of the American Physical Therapy  
11 Association. I'm a physical therapist in private  
12 practice from Cincinnati, Ohio. I am also certified  
13 ergonomist, as well as a certified disability  
14 management specialist.

15           And I found this process to be absolutely  
16 fascinating. And it's -- I have listened actually  
17 on a lot of the calls from afar, but it's a  
18 completely different experience to be here in  
19 person, to actually have handouts and see what the  
20 slides are referencing.

21           And the Dictionary of Occupational Titles  
22 from a physical capacity perspective has been quite

1 elegant in its simplicity since it was  
2 implemented -- I didn't realize -- 1939; but I  
3 completely concur that that work has changed a lot  
4 since 1939. I really think this new taxonomy will  
5 be an opportunity to make sure that the scaling and  
6 the content are more functionally relevant and  
7 consistent with science. I really get the sense,  
8 for example, looking at the strength measurement  
9 that a bunch of content experts sat around the room  
10 and constructed a scale that wasn't necessarily  
11 based on the work of Stover, Smoke and others that  
12 were actually doing research at that time.

13           And I think this is an opportunity also to  
14 introduce other factors that will help us better  
15 identify a combination potential for individuals  
16 applying for disability benefits. And as I looked  
17 around the room -- and I'm assuming all of us that  
18 are here that are attending this meeting was maybe  
19 an essential function in some respects to our job.

20           So I look at the universe design concept,  
21 which is chairs all the way around, and this work  
22 being done entirely sitting. But I also am mindful

1 that this particular function, which takes all day  
2 of our time, could be done, for the most part, by a  
3 one armed bandit. It could be done, for the most  
4 part, by a person that had limited sitting or  
5 standing tolerance, because they would have the  
6 flexibility to get up and down. I mean, the work is  
7 actually done and designed as far as the room set up  
8 for a seated conference, but it doesn't have to be  
9 done that way.

10 It could also be done with technology  
11 advances with somebody with low vision, because as I  
12 was at a blind work shop that creates products for  
13 the Federal government, the technology with the  
14 iPhones and taking pictures of devices and having  
15 them immediately converted to larger pictures just  
16 makes me aware of the potential that we're not  
17 tapping into and being aware of because of the  
18 shortcomings of our taxonomy.

19 I even look at the transcriptionist that  
20 is sitting there and I am mindful of the last  
21 deposition that I did on the expert case on a  
22 personal injury case; and the person that was a

1 transcriptionist for me actually had like a dust  
2 mask style of microphone over their face. The whole  
3 time I was talking they were talking into a voice  
4 recognition software.

5 I just think it's important that we  
6 recognize, yes, we need to look at the way the work  
7 is maybe currently being done as we sample the jobs,  
8 but we need to have a taxonomy that also is  
9 periodically kind of updated, has factors that show  
10 how the work is changing as our technology is  
11 changing, we're doing things differently.

12 And another key point is, from a risk --  
13 from my perspective as an ergonomist, the risk  
14 management modeling that goes on. What is  
15 considered heavy lifting is considerably different  
16 than what was considered heavy lifting back in 1939  
17 where current risk models are saying, you know,  
18 anything over 70 pounds is quite a significant lift.  
19 But we have an opportunity not only to identify what  
20 the demands are of the job, but also to identify  
21 where those jobs are maybe outliers within an  
22 industry. Do a good job of adjusting your scaling

1 to reflect more reasonable levels of capacity to  
2 reflect the way work is currently being done.

3 I'm real excited about the CAT  
4 presentation. It's, I think, really an opportunity  
5 to apply some of those methodologies to each of the  
6 individual content factors that come out of the  
7 content model. I think that would make more sense  
8 to me than putting several different areas of  
9 dexterity, and materials handling, and crouching all  
10 in one mobility category. I think that type of  
11 methodology certainly has some exciting promise.

12 And I really -- and from a standpoint of  
13 our Occupational Health Special Interest Group we  
14 look forward to the opportunity to look at how the  
15 September 2009 report with the initial list of  
16 content factors has, perhaps, change to incorporate,  
17 or include or exclude, or adjust that factor. I  
18 think that would be a good opportunity to actually  
19 survey our members to see whether those new content  
20 factors, or how they are now being written or  
21 portrayed, would make sense from our perspective as  
22 a provider or from the perspective of the patients

1 that we serve.

2           So nothing but positive comments for what  
3 you all are doing with this effort. Really happy to  
4 see the increased research focus, and just  
5 appreciate the opportunity to -- as our Occupational  
6 Health Special Interest Group to provide additional  
7 support, resources, or collaborate with you to make  
8 this effort a success and not drag it out over too  
9 many years. I really think we need that interim  
10 content model, factor model sooner than later, so we  
11 can begin to at least start talking in an common  
12 language to see what is going to help make that  
13 evolve during the process. Thank you.

14           DR. BARROS-BAILEY: Thank you, Rick. I  
15 would like to maybe open it up to the Panel to see  
16 if anybody has questions or comments. Sylvia.

17           MS. KARMAN: Hi, Rick. Thank you very  
18 much for coming to talk with us today. I really  
19 appreciate your interest in our work. One of the  
20 things that I just want to, you know, put out there  
21 continually, and as much as I can remind people that  
22 when we do put out into public our initial list or

1 initial content model those elements will be for  
2 testing. And so, yes, you are absolutely right that  
3 would then be open for discussion, you know, more  
4 exploration of other people's ideas; but, certainly,  
5 some of those things may come off the list in the  
6 long run as we're testing or other things will get  
7 modified. I just thought I would put that out  
8 there. There is no expectation that when one sees  
9 this that it's finished.

10 MR. WICKSTROM: That's very encouraging,  
11 and I just would like to -- I very much appreciate  
12 that approach, and really we look forward to just --  
13 I guess looking at the public commentary report the  
14 hardest thing that I struggled with is that I didn't  
15 have any sense of priority, as far as of the things  
16 presented from the public. It was just a long, long  
17 laundry list. So we had no idea how that has  
18 impacted your thought process for decision making  
19 about the original content elements.

20 So it will just be very interesting to see  
21 that next step so that we can provide feedback. And  
22 so thank you very much.

1 DR. BARROS-BAILEY: And Rick, I just want  
2 to maybe add another comment. I know that when you  
3 started your public comment, you were talking about  
4 the issue of accommodation. And I know that in some  
5 systems that is the way that they could be applied,  
6 and just that it's not one of the considerations for  
7 the systems that we're looking for in terms of SSA's  
8 needs. So that's not a consideration in terms of  
9 accommodations, so.

10 MR. WICKSTROM: I understand it's  
11 statutory, and it's not a consideration. But in the  
12 way that you present the factor it presents also how  
13 a person with a specific disability can have  
14 something like one handed work potential or work  
15 option, and you are capturing that's the way the job  
16 existed. It makes it very clear where the jobs  
17 exist that people are able to operate predominantly  
18 with one arm. I'm not implying that you are going  
19 to accommodate those individuals, but it does  
20 provide a way and better insight in terms of  
21 matching or identifying opportunities for  
22 individuals that have specific kinds of

1 disabilities.

2 DR. BARROS-BAILEY: Okay. Maybe I  
3 misunderstood. I understood the discussion to be  
4 including extra taxonomic data elements to consider  
5 accommodations. And I just wanted to clarify that  
6 that wouldn't be the application use for SSA.

7 So thank you, Rick. I appreciate it.

8 We have another organization, the  
9 International Association of Rehabilitation  
10 Professionals who will be providing public comment.  
11 We have Angie Heitzman and Ann Newlicht, who will  
12 presenting for ten minutes. Thank you.

13 MS. HEITZMAN: Good afternoon. I'm Angie  
14 Heitzman, vocational rehabilitation consultant with  
15 IARP. This is Dr. Ann Newlicht. She is with me  
16 today. We are here representing IARP. As we have  
17 before, we wanted to take this time to comment on  
18 today's proceedings.

19 We appreciated hearing from the  
20 Commissioner, and particularly regarding SSA's  
21 continued commitment to this process and the  
22 development of the OIS. We're pleased also with the

1 development of the Office of Vocational Resources,  
2 and its mission and charge. And we're also  
3 anxiously awaiting the OIS development plan, which  
4 I'm sure everybody is.

5           One thing we wanted to discuss was the  
6 focus groups that are being run now by ICF  
7 International. Three of our vocational experts  
8 participated in a group the day before Thanksgiving.  
9 And the process and questions that were gone through  
10 there they found were very thoughtful, and they  
11 appreciated the time taken with them.

12           There were a couple of concerns regarding  
13 how the focus group was developed. One person was  
14 identified -- we're not sure how -- but she was  
15 contacted by ICF; and she put out a notice on our  
16 list serve saying somebody is doing these focus  
17 groups. Does anybody want to join me? So three  
18 people quickly jumped on it, and were involved in  
19 it, but it was like the day before, maybe two days  
20 before; and it was very short notice.

21           There was concern that ICF didn't seem to  
22 understand what the VEs would do; what the role is,

1 and what IARP is about.

2 In the future when you are running focus  
3 groups, we would recommend contacting the  
4 professional associations who are able to identify  
5 and retain good people for the focus groups. And  
6 one of our concerns with that is the fact that that  
7 may be the only contact ICF has with VEs, just with  
8 those three people on that one suboccasion.

9 DR. NEWLICHT: Regarding the job analysis  
10 demonstration project I want to provide some  
11 comments. Over and over we hear the Panel bringing  
12 up the need for scientific rigor, and we concur.  
13 That's very, very important, being that we served  
14 for 20 years in the Social Security Administration.  
15 I think that we need to know that when we're  
16 providing answers to hypotheticals we're doing so in  
17 a defensible manner.

18 We're glad to see that although analyzing  
19 the same occupation, such as cashier, that there  
20 were differences Panel members experienced in  
21 different circumstances; and that this variable  
22 condition is real life. This supports the need for

1 multiple measures, and multiple layers, and multiple  
2 sources of information.

3           Regarding measurement, we share Sylvia's  
4 concern about reliance on measure tendency, and the  
5 possibility that they can cover up needed  
6 information. We would recommended decent wages as  
7 more realistic and appropriate. We're not sure that  
8 it's necessary to be absolute in every variable. We  
9 do need to make sure that's it's correct in terms of  
10 allowing us to make decisions, but having one answer  
11 for every job just may not be possible.

12           We acknowledge the importance to capture  
13 duties that are less common to fully represent a  
14 job; and certainly the importance of operational  
15 definitions can't be overemphasized. We all need to  
16 be speaking the same language.

17           In analyzing various job analysis formats  
18 we would hope that a method can be developed to take  
19 advantage of the best parts of each, realizing that  
20 a sample of convenience can provide some data so  
21 that we can compare the different methods as a point  
22 of discussion was the right place to start. It was

1 clear that there are good parts to both; and I think  
2 that that would come -- become more clear as more  
3 methods are looked at.

4           The process of job analysis does vary  
5 depending on job complexity, especially as we talk  
6 about interpersonal demands and cognitive demands  
7 that are different from a job that's very, very  
8 simple, maintain independence, as opposed to  
9 something that's very highly skilled, or just a  
10 different kind of job.

11           We support adequate training and  
12 retraining analysts on the standardized method. We  
13 think that's critical, and needs to be thorough and  
14 ongoing.

15           I guess in thinking through just the job  
16 analysis process sample, we think it is a process.  
17 And as this unfolds we fully support the need to be  
18 very complete and to try to answer all of the  
19 questions that need to be answered and be  
20 scientifically rigorous. We also support the need  
21 to finish it in someone's lifetime, so that it can  
22 be used. That this isn't an ongoing process that

1 lasts forever.

2 I think as an VE -- and I know that this  
3 Panel has discussed this in depth -- but Social  
4 Security decisions are ultimately individual. And  
5 that any one comes up all the time. So a  
6 constellation of issues that an individual brings to  
7 a claim, and -- just can't be ignored. And so at  
8 some level I think we need to think about what is --  
9 what we can do, and in some cases then rely on  
10 vocational expertise and vocational experts to  
11 provide clinical judgment when there are some  
12 unanswered questions.

13 MS. HEITZMAN: Do I have another minute?  
14 Good.

15 We wanted to just have a couple brief  
16 comments on this afternoon's information and  
17 presentation. Dr. Rasch had discussed the needs for  
18 better methods to collect claimant data earlier on  
19 in the process, and that that would be most useful  
20 in decision making. We agree with that. We agree  
21 with the need to holistically measure function.

22 From our vantage point this would be

1 helpful; however, it's important that decision  
2 makers at all levels have the training and tools to  
3 make appropriate and defensible decisions, not just  
4 at the hearing level.

5           Regarding Dr. Haley's presentation, we  
6 were concerned that some of the items recommended,  
7 whether or not they are actually measurable. And  
8 also along those measures some of them appeared to  
9 be very subjective in nature. Again, going back to  
10 the defensibility of how we do our work, we're  
11 always concerned about the use of self report as a  
12 reliable measure.

13           In regards to the physician's actual  
14 knowledge of the claimant's ability to do a task, we  
15 have seen it before when we have been in these  
16 positions. Sometimes the doctor will just say, can  
17 you do that, to the claimant. The claimant will say  
18 no. The doctor will say, okay, and check that off.  
19 And we're just concerned again in defensibility with  
20 that type of an issue.

21           Terms needing to be defined, such as "some  
22 difficulty." What does "some difficulty" mean? How

1 do we operationalize that?

2           And in the end result, what is the purpose  
3 for the data? How is it going to be used? Is it  
4 that it actually terminates a job matching kind of  
5 thing where you prepare the clients' response to --  
6 a doctor's response to the job? Or is that not what  
7 the end result is?

8           We're concerned also about the CAT system,  
9 although it is sufficient, it does not always give  
10 all the data points that SSA may want to access; and  
11 the ability to see the full range of a person's  
12 abilities.

13           DR. BARROS-BAILEY: Okay. Thank you.  
14 Panel, any questions or comments?

15           All right. Thank you for providing public  
16 comment.

17           We are at the point in our agenda where we  
18 have opportunity for deliberation. I want to right  
19 before lunch kind of plant in the panel's mind a  
20 couple things that we need to, I think maybe keep in  
21 mind or discuss. And the first question that I like  
22 to put out there was a question that the

1 Commissioner asked us to address. And the question  
2 was -- we might not be able to answer it today. We  
3 might at least start at that level considering it --  
4 is provide anything in our work, anything in our  
5 advice and recommendations to SSA that might assist  
6 them in terms of seeing some benefit from this  
7 project earlier on. So I will put the question out  
8 there. Shanan.

9 DR. GIBSON: Sometimes it seems like we  
10 are setting this up, and we probably are. Funny how  
11 that works out.

12 I know that I am considered by some to be  
13 relentless for pushing in doing this scientifically  
14 and methodically. That doesn't mean that I don't  
15 see the need for trying to find ways we can do  
16 things efficiently and create some momentum that  
17 will move this project forward in a positive way.

18 Several of us have talked about is that  
19 viable? What happens if it -- if we do something  
20 that's not quite ready? And for whatever reason I  
21 had this idea this morning during the Commissioner's  
22 talk about one area where I thought maybe there is

1 something we can do to help to get it out there  
2 sooner than waiting until the end.

3           So my question to the Panel is could we  
4 consider while the content model development is  
5 ongoing to maybe focus some energy on scale  
6 development measures? We know that there are  
7 certain scales and measure that are going to have to  
8 be created. There is a good research literature out  
9 there on many of them. And for example, if we could  
10 decide on things. We have identified some that are  
11 necessary. We know they need a better frequency  
12 scale. We know they need measures of repetition.

13           But maybe we could help them develop good  
14 scales. That is something they could integrate into  
15 their existing system while doing it consistently  
16 with their existing scales to run the test to see  
17 what works. And it would be a small piece, but  
18 something that could be rolled out in advance.

19           DR. SCHRETLEN: It seems reasonable to me  
20 for us to think about and consider it. I think in a  
21 sense we had already begun that process with the  
22 report. I know that we have had many discussions.

1 In our roundtable that very issue came up. We were  
2 trying to, you know, distinguish between the  
3 constructs and how we would go about measuring them.  
4 But it seems to me like it would be very reasonable  
5 for the Panel to begin thinking about.

6 DR. GIBSON: And from my perspective the  
7 worse case scenario is they get some better measures  
8 of existing constructs they already have to start  
9 with. For example -- I was making an example, a  
10 list here -- different types of frequency scales to  
11 be considered. I believe currently it is  
12 continuously, frequently, rare type of thing;  
13 probably consistently. That's not the best; but  
14 what are some options we might look into?

15 Well, there is a number of times per day  
16 type of scale. There is hourly, daily, weekly kind  
17 of scale. There is how many minutes or hours per  
18 day, and how much cumulative time type of scale. So  
19 right there we can identify four types of frequency  
20 scales, look and see which might be better, and  
21 perhaps come up with a frequency scale that would  
22 give them better data.

1 DR. FRASER: I just had a thought about  
2 ICF activities. Maybe through Sylvia can get some  
3 kind of updating of kind of what's going on, and  
4 maybe some challenge points in their activities so  
5 we can, you know, have some -- provide some feedback  
6 for that process.

7 DR. BARROS-BAILEY: Those are two  
8 different points. I'm going to park that one right  
9 now until we can maybe get some more discussion on  
10 scales and measures. We will come back to that. I  
11 want to make sure that we fully develop that idea in  
12 terms of the scales and measures.

13 Any other input into the idea that Shanan  
14 proposed, and that Dave commented on? Sylvia.

15 MS. KARMAN: Yes, what I'm -- I'm  
16 interested in this. I think that would be -- I  
17 certainly see that as a possibility. I'm wondering  
18 what some of you may have had in mind in terms of  
19 activities, like roundtables, perhaps? I am sensing  
20 that some areas of functioning are going to be  
21 lending themselves more readily than other areas.

22 So just wondering is there -- or is this

1 something that we want to take up in subcommittees,  
2 and then report out? Certainly, we want to talk  
3 more about it; but I'm very interested. I think  
4 that would be very helpful.

5 DR. BARROS-BAILEY: I think one of the  
6 things that immediately comes to mind is that we  
7 might be able to -- we have a couple subcommittee  
8 meetings tomorrow. We might be able to have some  
9 preliminary discussions about it tomorrow during  
10 those, and see if it's something that could be  
11 either handled by an existing subcommittee, or if we  
12 want to do another ad hoc -- the ad hoc seems to  
13 work well for us -- in terms of addressing this.

14 So Tom.

15 MR. HARDY: I'm thrilled with the idea of  
16 doing this, and we have talked about this  
17 individually in different places. I think the  
18 message we have got both from the Commissioner and  
19 from the public comments, let's kind of start moving  
20 things forward.

21 I like Shanan's idea, and I was going to  
22 suggest why don't we do an ad hoc committee to just

1 get this started, focus on something very narrowly,  
2 establish a process, figure out what's the best way  
3 of addressing -- setting this up. Do it on just one  
4 scale. Get the darn thing done. Figure out what's  
5 the most efficient way to do it; and then we can  
6 start rolling it out in pieces. That might be a  
7 wonderful way to approach the problem.

8 My question of roundtables, I don't know  
9 if a roundtable is necessary. I would ask why you  
10 think we would want to do that? I am just curious.

11 MS. KARMAN: Then, I guess maybe what I  
12 need to find out then is what level of involvement  
13 you all are thinking of having? I guess I was  
14 anticipating -- or what I was assuming -- perhaps  
15 incorrectly -- you were looking to provide us some  
16 information to get us moving in a certain direction  
17 as opposed to developing the scale.

18 So when I suggested roundtables it was  
19 really more on the line of bringing individuals who  
20 may have a particular area of expertise and focus on  
21 a certain area of measurement, for example, the  
22 mental cognitive elements. A measurement for how we

1 look at residual functional capacity is not the same  
2 thing as what you would be looking to measure in the  
3 world of work. So there may need to be some  
4 discussion about that with individuals, and that  
5 might help inform us about what to do next.

6           If you are talking about actually doing  
7 something, that's different. Then we need to talk  
8 about, all right, what's your study design? Where  
9 are you going with that? And which is fine.

10           DR. GIBSON: I was thinking if it would be  
11 an ad hoc group, it would be an ad hoc group that  
12 was charged to work very closely with your research  
13 group within your OVRD; that we will also follow the  
14 business protocol that you are developing, because  
15 one, this would be a good try out for that within  
16 the research methodology, and utilizing the plan as  
17 it's being developed.

18           I did not see the Panel actually  
19 developing your scales, but being an integral,  
20 collaborative part of helping you find research on  
21 it, directing towards that. I was also very much  
22 focused on scales that measure work activity and

1 wanting to measure work activities for those items,  
2 which are -- I hate to say your easy wins, but most  
3 likely to be the ones that are most concrete, and  
4 therefore, quickly useful.

5           We know we have to measure sitting,  
6 standing, walking. We know we have to measure in  
7 terms of frequency. Let's start with the animals we  
8 know best. I think that, personally, would be where  
9 you would see the quickest movement toward  
10 establishing integrating something new in a roll out  
11 type of capacity; but that's my thinking. That's  
12 why I'm throwing it out there.

13           MS. KARMAN: Okay. So that sounds like  
14 what I was saying, what I was understanding was, in  
15 other words, helping us identify the sources,  
16 approaches that we should investigate; and providing  
17 some direction along those lines as opposed to doing  
18 it. So I mean, providing information about, you  
19 know -- so in other words, not conducting a  
20 literature survey, for example, advising about what  
21 literature -- who has been writing in that  
22 particular area, that kind of thing. And that's

1 what I was suggesting.

2 DR. BARROS-BAILEY: I think that's a great  
3 distinction to make since we're advisory, and we're  
4 not developmental in developing the OIS. I think  
5 that's an important discussion to have. I think  
6 that's clear that it would be advisory. Shanan.

7 DR. GIBSON: Last comment on this. The  
8 reason I used frequency as my exemplar, as I just  
9 said, this is about measuring work activity.  
10 However, those scales with things like frequency of  
11 standing, sitting, walking translate directly to  
12 measuring the activities and then the capabilities  
13 of individuals. So these are scales that should be  
14 able to maintain double duty. How many hours a day  
15 do you stand? How many hours a day can you stand?  
16 How many hours a day does the job require you to  
17 stand? Same scale always.

18 DR. BARROS-BAILEY: Deb.

19 MS. LECHNER: You know, when developing a  
20 content model, there is so many -- well, there is  
21 several different components of it. There is the  
22 physical demands. There is the psychological,

1 cognitive behavioral, whatever you want to call  
2 those. There is the environmental piece. And so --  
3 I think we have all had discussions from time to  
4 time that certainly the physical components there  
5 are going to be probably fewer changes, less  
6 dramatic changes than perhaps in the mental  
7 cognitive.

8           So you wonder if -- you know, sometimes  
9 you wonder if there are pieces of it -- rather than  
10 just try to develop the whole content model at once,  
11 are there -- can you break it down? Could you  
12 introduce the physical components first, and start  
13 moving that ahead while more work is being done on  
14 the mental cognitive? Can you start with the  
15 environmental piece and move that ahead?

16           So that's just another way of structuring  
17 the output of the content model that might move it  
18 ahead faster. There might be several -- you know,  
19 there would be development going on simultaneously.  
20 Just a thought.

21           DR. BARROS-BAILEY: I think immediately  
22 that comes to me -- and I don't know if I'm

1 understanding what you are saying; but if -- the way  
2 I'm interpreting it is maybe go out and maybe  
3 capture data maybe involved with physical. Then go  
4 out mental cog. So your -- I don't know how more  
5 efficient that would be, because it sounds like you  
6 are going out -- it would be more extensive to go  
7 out and capture data three times, instead of once.  
8 And spending the time to make sure the instrument is  
9 complete and capturing the data once. So I don't  
10 know if I'm misunderstanding what you mean by that.

11 MS. LECHNER: Yeah. And I'm not sure that  
12 I was thinking along the lines of capturing data  
13 solely on one aspect of the content model, as much  
14 as I think there are several steps of development  
15 within the content model. So there is the  
16 development of the items, and then there is the  
17 scales that kind of fit, similar to what Shanan was  
18 saying. Scales of those items.

19 And then, you know, so could work sort of  
20 be going on simultaneously in parallel? And that  
21 maybe how the internal SSA group is working on it  
22 anyway. But it is just -- you know, thinking about

1 how would -- how would you fast tract this project?

2           Could there be some strategic ways of  
3 working on it? Some divisions of labor so that  
4 things are occurring simultaneously and using  
5 smaller groups and moving that forward and having --  
6 so that, perhaps, an internal group within SSA is  
7 working on the physical demands and interfacing with  
8 the physical demands subcommittee while work is  
9 going on simultaneously with the mental cognitive;  
10 and they are interfacing with the mental cog  
11 subcommittee. So you have got things happening in  
12 parallel. And I'm not talking about the data  
13 collection phase.

14           DR. BARROS-BAILEY: Thank you. Shanan.

15           DR. GIBSON: I could see where Deb sees  
16 deficiencies there, because I do theoretically; but  
17 I think practically, at least from what I  
18 understand, they don't have enough personnel to have  
19 some working with mental cog, and some working with  
20 physical. I think we have got the same small group  
21 of people trying to handle it all, and that's  
22 probably a limitation. We might break us up; I

1 don't think they can break their staff up.

2 DR. BARROS-BAILEY: Allan.

3 DR. HUNT: I think this is a very  
4 simulating discussion. I am very stimulated by the  
5 Commissioner's question or challenge. However, I  
6 think it's something that bears a little more  
7 thought. I guess I would like to see some pondering  
8 about this before we ventilate in public.

9 DR. BARROS-BAILEY: Yes. I wanted to  
10 bring it out there just as a general topic of  
11 discussion. What it sounds like to me is that we  
12 may need to maybe go ahead and take it to  
13 subcommittee, talk about a little bit more and come  
14 back with some ideas in terms of that. As I  
15 indicated when I introduced the question, we may not  
16 get to an answer; but I think it just bears on the  
17 fact that we are aware that SSA needs it today than  
18 yesterday; and that there is a sense of urgency. It  
19 needs to be done scientifically. It needs to be  
20 done rigorously.

21 And we can't, you know, assume that it's  
22 going to be research ongoing for 20 years on it. So

1 where is that balance to make sure it gets done, and  
2 gets done right and efficiently? Okay, Deb.

3 MS. LECHNER: Another thought would be  
4 that we might want to wait until we see the R & D  
5 Plan. Because it might -- you know, if we see the  
6 plan it might be easier to say, okay, how can this  
7 particular plan -- given that we have identified and  
8 agreed upon what a quality project looks like, now  
9 let's talk about fast tracking. So that we don't  
10 undercut any of the quality issues.

11 MS. KARMAN: When Shanan mentioned the  
12 initial recommendation -- not recommendation, but  
13 suggestion or idea for us to consider, I was  
14 anticipating that that was -- you know, giving us  
15 some sign posts in terms of here is some things to  
16 consider. Here is some areas of literature to  
17 follow-up on or look through. To actually get into  
18 developing one segment of content model or doing one  
19 piece, I just -- I'm thinking that it's certainly a  
20 good idea for us to wait until we got the plan to  
21 look at to see if there is other things that might  
22 rise to the top.

1           As you know, it is easy to pick fruit, but  
2 I'm concerned about the sequencing or staging of  
3 things. Even regardless even if we had, you know,  
4 twice the staff, I just think the sequencing may be  
5 a problem. So anyway.

6           DR. BARROS-BAILEY: So that's for  
7 consideration for us all tomorrow when we are going  
8 through our meetings.

9           Any other discussion on this particular  
10 question? Okay. Comment.

11           DR. SCHRETLEN: Yes. Just I recall from  
12 the first day you were outlining some of the --  
13 what's called business process document, and its  
14 four components and the classification in each of  
15 those components, that I would think that if we made  
16 some significant progress on those over the next  
17 year, that would be quite an impressive  
18 accomplishment. And I would think that the  
19 Commissioner would -- I would assume that's what he  
20 is looking for. I think that's a concrete  
21 manifestation of the work we are doing.

22           DR. BARROS-BAILEY: Tom.

1 MR. HARDY: I don't want to beat a dead  
2 horse, but I'm going to anyway.

3 I like the idea that we are talking about  
4 here. I like the idea of taking something from the  
5 scale, as Shanan suggested. I wonder if we couldn't  
6 use this test and just run it through the whole  
7 system, this one small piece, run it through the new  
8 plan that you are working on and see how that piece  
9 would fit through. Like maybe using physical, it's  
10 concrete that would maybe show us where the business  
11 plan needs to be tweaked or changed, or how we're  
12 going to approach different problems. I would like  
13 to see people talking about this. It makes a lot of  
14 sense.

15 DR. BARROS-BAILEY: Thank you. I  
16 understand. Okay.

17 Any other discussion on this particular  
18 question?

19 Now, I want to bring from the table -- you  
20 had asked, Bob, Sylvia some question about ICF  
21 International. And so Sylvia.

22 MS. KARMAN: So let me see if I recall the

1 question was about, to what extent there may be some  
2 opportunity to interface with staff about --

3 DR. FRASER: I -- you know, we obviously,  
4 can't all be interfacing with them. I thought maybe  
5 through you, you can facilitate progress. Whether  
6 that be locating personnel for focus groups, whether  
7 that be pointing them to literature, et cetera. If  
8 they reach certain challenge points that slow them  
9 down, is there someone we can, you know, sort of  
10 keep things moving? Again, under the manual of  
11 efficiency, you know, if you can update us every six  
12 weeks or whatever you feel is appropriate.

13 MS. KARMAN: Thank you for the offer. I  
14 think we can try to coordinate that, so that, you  
15 know -- just what you said. If they need to  
16 identify experts we will already have people in  
17 mind, we could pass that information along, or  
18 whatever may be needed. So I think that would be  
19 good. We can work that out.

20 DR. FRASER: Where do they work out of?

21 MS. KARMAN: As I understand it, there is  
22 an office in Northern Virginia; and I think there is

1 another one in Texas.

2 DR. FRASER: It can be helpful, you know,  
3 just people in those areas if they need them, that  
4 kind of thing.

5 DR. BARROS-BAILEY: Okay. Other areas for  
6 deliberation that anybody want to bring up at this  
7 point?

8 Okay. We have some administrative  
9 business to handle in your packets. Let's see, it's  
10 under the last red tab -- or red section that's tab  
11 two. We have the Minutes from our last  
12 teleconference. This is the teleconference where we  
13 voted on the general recommendation number eight on  
14 OIS planning.

15 I want -- I would like to entertain a  
16 motion to accept the Minutes.

17 MR. HARDY: I would like to make a motion  
18 that we accept the Minutes.

19 DR. BARROS-BAILEY: And Shanan seconded  
20 that motion.

21 DR. GIBSON: Yes.

22 DR. BARROS-BAILEY: Okay. Any discussion?

1 All those in favor?

2 PANELISTS: Aye.

3 DR. BARROS-BAILEY: Opposed?

4 Motion carries. Okay.

5 Also, under that tab, it's the very last  
6 sheet of paper there, we have dates. Debra  
7 Tidwell-Peters did a scan of the Panel for dates for  
8 next year in terms of the next three meetings. We  
9 have identified three dates, March 15th through the  
10 17th in San Francisco. June 21<sup>st</sup> through the  
11 23<sup>rd</sup> in Seattle; and September 20th through the  
12 22<sup>nd</sup> in Denver. If you would put those dates on  
13 your calendar, that would be wonderful. And as we  
14 know sometimes because of logistics, those locations  
15 change. So those are proposed locations for the  
16 meetings.

17 Okay. So March is looking like it's going  
18 to be a very full meeting, the impression that I'm  
19 getting. At this point in the meeting I usually  
20 open it up to the Panel for recommendations,  
21 suggestions for agenda items for March.

22 One of the considerations that we have had

1 in the past that we would like to address is maybe  
2 some of the presentations from the earlier  
3 statistics from Census, other sources for sampling.  
4 So one of the thoughts is having a day of sampling  
5 presentations. Other thoughts out there that you  
6 would like to see.

7 MS. LECHNER: Will it be premature for ICF  
8 to give a presentation to us at that time?

9 MS. KARMAN: It might be. I think it  
10 depends on the topic, but I think it might be. We  
11 may really want to wait until June for that.

12 DR. BARROS-BAILEY: Other areas for  
13 presentations?

14 Are there going to be any current projects  
15 that will be at a point maybe of completion before  
16 March that we might have presentations from staff  
17 on? A general question.

18 MS. KARMAN: We may be in a position to  
19 provide the results for the Ochmann Volt (phonetic)  
20 study, for example. So that's one thing. You know,  
21 as we get through January I will be in a better  
22 position to know what we can predict to be able to

1 present on.

2 DR. BARROS-BAILEY: Other -- Allan.

3 DR. HUNT: What about the International  
4 IRS research?

5 MS. KARMAN: Okay. One of the things we  
6 have done is under the -- our research design, one  
7 of the first things we're doing is pulling together  
8 all the information that the Agency has already  
9 collected, investigated with regard to Occupational  
10 Information systems or classification systems. And  
11 a lot of them were national. Some of them were  
12 private sector. Some of this has been done over the  
13 years. We had a contractor do this in the late  
14 '90's.

15 We also did point out some investigation  
16 for international systems. How are they used? Just  
17 so that we are able to with confidence say that we  
18 really have examined the full range of what's  
19 available.

20 In addition to that, we are going to  
21 augment that investigation with an investigation of  
22 other classification systems, particularly those in

1 the Federal government. Mainly because -- it's not  
2 so much that we're interested in the resulting data;  
3 but that the methodologies that may have been used  
4 to develop their content model -- we would call the  
5 content model their instrumentation. You know, they  
6 had to make certain design decisions. So based upon  
7 what their purpose was, some of their design  
8 decisions might be things that will be very  
9 important to us.

10           So what I'm getting at is we are combining  
11 that work with -- the work on the international  
12 review with what's available nationally, and what we  
13 learned from that. So it was really to try to ramp  
14 that. When we looked at the international aspects  
15 of it, we thought well, it almost seems like you  
16 want to be able to say, okay, well, that's nice, but  
17 what's available in your own backyard, you know?

18           So we thought well, we do -- the Agency  
19 has -- has that information, and we also have some  
20 additional -- some things that are more recent. So  
21 it's really a matter of pulling those things  
22 together.

1 DR. BARROS-BAILEY: Okay. Other items for  
2 the agenda? Dave.

3 DR. SCHRETLEN: Yes, because the job  
4 analysis is just so far outside of my expertise, I  
5 have found it enormously helpful to do those  
6 exercises where we -- the Panel has rated a grocery  
7 clerk; and then to hear the presentation of your  
8 experience of going out -- Bob and Shanan and Deb's  
9 experience of going out and observing and speaking  
10 with the supervisor, and so forth. It's just very  
11 helpful to me, as a panelist, to get a clearer idea  
12 of what -- what -- concretely, what this involves.  
13 Because, ultimately, this is developed -- you know,  
14 we're advising Social Security about the development  
15 of a new Occupational Information System.

16 So at minimum, I would appreciate some  
17 more opportunity to just talk with you guys about  
18 what you found. Like, for instance, one of the  
19 things that you talked about was the fact that the  
20 instrument that Deb used do not include any  
21 assessment of cognitive or mental job demands or  
22 work characteristics. Whereas, the King County

1 instrument did. But I never heard about the King  
2 County instrument, whether it assesses complexity of  
3 information processing, or frequency, or just the  
4 presence or absence of it? It's just not -- again,  
5 it's still quite abstract to me how this is done.

6           So it would be interesting -- you know, I  
7 would actually really appreciate seeing other  
8 instruments used, and maybe getting a little bit  
9 more into the detail of how do you go about  
10 assessing these things? Because that kind of level  
11 of detail might actually be very helpful to me in  
12 terms of -- as SSA moves forward, being aware of  
13 what the weaknesses are of these instruments that  
14 exist. What the contours are of how they go about  
15 assessing things just in terms of -- although, the  
16 job analysis is outside of my expertise, there are  
17 some areas that I might be able to bring to the  
18 table in terms of thinking about it as I learn more  
19 about that.

20           DR. GIBSON: I joked at lunch that -- you  
21 weren't sitting close enough to hear me -- that they  
22 won't let you do a job analysis. I still haven't

1 given up the idea -- one of the things that was very  
2 helpful for me was to go to a DDS, because I didn't  
3 know anything about the disability adjudication  
4 process. There are members of the Panel who have  
5 done work analyses for various reasons. There are  
6 people who have never done a work analysis. The  
7 little pseudo one we used for informational purposes  
8 was vastly different than actually going.

9           It may be around the time people have a  
10 lot -- they are able to allocate to something like  
11 this. But taking something like this compiled  
12 instrument I created from the King County ones, or  
13 utilizing Deb's, and somebody actually giving this a  
14 try I think can be very formative for folks who want  
15 to see more contours of the process. So I think you  
16 are right, it is very important to try to do this.

17           DR. BARROS-BAILEY: One of the things that  
18 I think we have done over the last year to try to  
19 get the Panel on the same page on a lot of these  
20 issues has been through the professional  
21 development. So I have seen a lot of discussion  
22 today, what you are bringing up of interest, and

1 other areas as well.

2           Let's -- let me take this back and work  
3 with Sylvia and Debra on it in terms of our agenda,  
4 and see what might be the best way to address this.  
5 It might be through professional development, or  
6 like you say, actually, applied, such as the DDS  
7 versus the year of experience that we have there.

8           Does that sound like maybe a good way to  
9 approach that? Okay.

10           Go ahead, Sylvia. Then I have an idea.  
11 Go ahead.

12           MS. KARMAN: As long as we were on the  
13 topic of the job analysis exercise that Shanan, Bob,  
14 and Deb did, I think we may want to have more  
15 discussion about the process. Because I think that  
16 that was really informative. It certainly raised  
17 some concerns that Abigail, you know, also was able  
18 to reflect on with regard to, you know, how to  
19 reconcile differences in ratings, and that kind of  
20 thing.

21           So I think it is just a normative  
22 process -- what I call a process, as opposed to

1 instrumentation and content of the job analysis --  
2 that may be very helpful to us, especially as the  
3 year progresses in our work with ICF International  
4 on the business -- as the process for job analysis  
5 moves along.

6 DR. BARROS-BAILEY: I didn't plan that,  
7 but you segued into what I had on my list, which was  
8 the discussion we had earlier on resolving  
9 differences. I know that Abigail and David, both of  
10 you have some expertise in that area. It might be  
11 helpful to have a presentation, maybe consideration  
12 on the agenda for March in terms of resolving  
13 differences in the literature out there, and what  
14 the methodology is that might be helpful to this  
15 process. Deb.

16 MS. LECHNER: Yeah, I think one of the  
17 things I would like to see is that -- and I'm not  
18 sure quite what to call it, but the session that we  
19 had on Tuesday morning -- I think it's labeled as a  
20 fact finding discussion. I think we all found that  
21 very useful for you and Sylvia to update us on some  
22 ongoing issues, and just to give us time to reflect,

1 and ask questions, and think about things and  
2 discuss it. So those were -- that was a very  
3 helpful session. And I would love to see that  
4 repeated -- that format repeated. I'm sure it would  
5 be lots of different topics; but I found that very,  
6 very helpful.

7 DR. BARROS-BAILEY: I have gotten feedback  
8 from, I think, almost every Panel member who was  
9 there who felt the same. So it may become a routine  
10 part of every meeting for us. I agree that it was  
11 very valuable to do.

12 Any other thoughts in terms of things for  
13 the agenda that we need to consider for March?

14 As I said, it is going to be pretty full  
15 sounds like to me.

16 Well, anything else anybody needs to bring  
17 up in terms of deliberation?

18 So at this point, I think we are  
19 concluding our second quarterly meeting for OIDAP  
20 for this fiscal year. I would like to turn the mike  
21 over to the Debra Tidwell-Peters to formally adjourn  
22 the meeting as our Designated Federal Officer.

1           So I would entertain a motion to formally  
2 adjourn our meeting. Abigail.

3           DR. PANTER: So moved.

4           DR. BARROS-BAILEY: Second?

5           MS. HOLLOMAN: I will second.

6           DR. BARROS-BAILEY: Janine.

7           All those in favor?

8           PANELISTS: Aye.

9           DR. BARROS-BAILEY: Nobody wants to stay  
10 here longer. Debra.

11           MS. TIDWELL-PETERS: Thank you very much.  
12 That means that the first meeting of fiscal year  
13 2011 is now adjourned. See you in March.

14           (Whereupon, at 4:30 p.m., the proceedings  
15 were adjourned.)

16

17

18

19

20

21

22

CERTIFICATE OF REPORTER1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22

I, Stella R. Christian, A Certified Shorthand Reporter, do hereby certify that I was authorized to and did report in stenotype notes the foregoing proceedings, and that thereafter my stenotype notes were reduced to typewriting under my supervision.

I further certify that the transcript of proceedings contains a true and correct transcript of my stenotype notes taken therein to the best of my ability and knowledge.

SIGNED this 27th day of December, 2010.

-----  
STELLA R. CHRISTIAN