

1 STATE OF FLORIDA  
2 DEPARTMENT OF HEALTH  
3 AGENCY FOR PERSONS WITH DISABILITIES  
4 iBUDGET RULES DEVELOPMENT WORKSHOP

5 Office of the Agency for Persons with Disabilities  
6 4030 Esplanade Way  
7 Room 301  
8 Tallahassee, Florida 32399

9 **February 16, 2015**  
10 **2:00 - 4:00 p.m.**

11 **In Re: Public Workshop, Rule 65G,**  
12 **Florida Administrative Code**

13 MEMBERS PRESENT:

14 Ms. Denise Arnold, APD Deputy Director of Programs  
15 Mr. Art Barr, APD, Program Manager  
16 Mr. David Dobbs, APD, Budget Director

17 Xu-Feng Niu, Ph.D., FSU, Statistician for algorithm  
18 Minjing Tao, Ph.D., FSU, Statistician for algorithm

19  
20  
21  
22  
23  
24  
25  
**ORIGINAL**

1 \* \* \* \* \*

2 (Whereupon, the public meeting was called to  
3 order by Mr. Art Barr, after which the following  
4 occurred:)

5 \* \* \* \* \*

6 MR. BARR: Just to make sure. All right,  
7 just for the recorder's sake this is a publicly  
8 noticed meeting, February 16<sup>th</sup> from 2:00 to 4:00  
9 Eastern Standard Time for the Agency for Persons  
10 with Disabilities on the algorithm. I think we've  
11 covered that. Dr. Niu will be here shortly, so  
12 those of you that are wondering, this is Dr. Tao.  
13 We've introduced her before. All right. And  
14 you're sitting up front; we finally got you up  
15 front. Dr. Niu informed us he was going to be a  
16 little bit late at the beginning of this, which  
17 works out perfect because beginning of the  
18 presentation is a recap so that we can kind of  
19 remember where we came from, where we're going,  
20 and then we're going to get into the meat of it.

21 There's also handouts and I see that most  
22 people have them on your lap and I love the fact  
23 that they're in color 'cause it's easier to read,  
24 and I know some people are already going through  
25 the handouts which means your questions will be

1 ready for us.

2 We're going to stop throughout the  
3 presentation. You're going to see a slide that  
4 comes up that says "Discussion", and we could wait  
5 'til the "Discussion" slides, there are several of  
6 those throughout this afternoon's presentation;  
7 that's when we're going to take questions from the  
8 audience here and then we'll be monitoring on the  
9 computer system questions that come in.

10 Before we get rolling is there anything that  
11 I might have missed? Do you have any burning  
12 questions?

13 What a President's Day, right? We've got  
14 Valentine's Day, President's Day, algorithm  
15 meeting. Perfect. I got a few chuckles on that  
16 one. All righty.

17 So off we go. I kind of went over some of  
18 this but we would like to make mention that if you  
19 just are here for the first time today, you can  
20 catch up. You, too, can catch up by going to our  
21 website and I put the hyperlink right there for  
22 you. You can cut and paste that in and you'll be  
23 able to see all the Power Point presentations that  
24 we've done to date; and also there is  
25 transcriptions and there's audio along with the

1 public notice. So all of that is there for you.  
2 And, again, I mentioned that the Power Point for  
3 today's presentation has already been posted.

4 Okay. I mentioned to the folks on the phone  
5 that they will have an opportunity to possibly ask  
6 questions at the end, depending on the feedback  
7 loops if we're able to do that. We'll play that  
8 part by ear. And we talked about the links. So  
9 with that we're going to continue on.

10 Dr. Niu will be here but I would like to  
11 introduce Dr. Tao again and she is the assistant  
12 professor at the University of Florida in the  
13 Statistics Department. I guess we call it the  
14 Department of Statistics, so forgive me for that.

15 MS. ARNOLD: Is that in presentation mode?

16 MR. BARR: It's supposed to be, yes.

17 MS. ARNOLD: Okay. I just wanted to check.  
18 I left the room for a minute. Sorry.

19 MR. BARR: Yeah, we were sharing the screen  
20 and that means we're seeing this, right?

21 MS. ARNOLD: No, I meant on the phone. Is it  
22 - did you mute them already?

23 MR. BARR: I thought I did, but I can always  
24 double check.

25 That's a good connection. It's really quiet

1 so that means we've got a good connection.

2 MS. ARNOLD: We would have known soon if we  
3 weren't on.

4 MR. BARR: All right. Now, we're just going  
5 to dive in here and do a little bit of catch-up.  
6 For those that want to know everything about  
7 algorithm, especially the one that is in the  
8 Agency for Persons with Disabilities Individual  
9 Budget. This is the foundation for the algorithm  
10 as you all know.

11 So just to recap, it's age 21 and under, 21  
12 and over; it is living setting so if the living  
13 settings are listed out: family homes, supported  
14 living, group home and residential habilitations  
15 center. Additionally, you have QSI which is the  
16 Questionnaire for Situational Information. And  
17 what you have is a sum of scores for your  
18 functional and your behavioral. Most of you know  
19 this and also then there's three questions: 18, 20  
20 and 23. I know this in my sleep because I've  
21 presented it for many years and those are  
22 transferring, self-protection, and maintain  
23 hygiene.

24 All right. Any questions on where we're  
25 currently at?

1                   That is the algorithm basis that we're  
2 running right now.

3                   All right. So the current algorithm, the  
4 way it works, and this is - I'm kind of - I must  
5 be turning into a nerd because I'm getting very  
6 excited about where we're headed with the  
7 algorithm. As you study states and see how  
8 algorithms or statistical analysis work, it takes  
9 time. So we started with this original algorithm  
10 or allocation of amounts for individual budgets  
11 with considering 53 variables, independent  
12 variables, excuse me, and we use fiscal year '07-  
13 '08. That's very important because we're going to  
14 talk about that later as the dependent variable.

15                   And then you looked at the expenditures and  
16 you come up with the goodness of - oh, what that  
17 means again real quickly, and it came out to 0.67,  
18 67% as far as a goodness of fit. But here's the  
19 great news. This is what we're going to be going  
20 through today.

21                   This presentation will demonstrate new  
22 information that we can now consider and that is  
23 up to 126 independent variables based on I might  
24 add your input because that was very, very, very  
25 important part of this from the beginning. We

1 asked for stakeholder input, we received that.

2 As we talked about the last presentation,  
3 we're looking at fiscal year '13-'14, and I'm sure  
4 there will be questions on that towards the end or  
5 when we take a break for discussion, we'll be  
6 happy to answer those.

7 Now, we've started running this information  
8 that you all wanted and you'll notice a really big  
9 change from the original one which is 0.67 R-  
10 squared factor. I can't believe one up here that  
11 says R-squared, but that's how it works.

12 0.79. That's a dramatic increase in the  
13 goodness of fit. We're going to go over exactly  
14 why that increase came about. I can tell you why  
15 it didn't the first time 'cause we didn't have  
16 reliable information for the independent living  
17 setting. Denise is going to talk a lot about the  
18 living setting, how we've been able to pull that  
19 out better to get a higher R-square factor.

20 Examine the goodness of fit. That's what  
21 we're doing when we talk about R-square. Very  
22 simple. How does it fit the model? R-square, I'm  
23 just going to read this part; I know you can read  
24 for yourselves, but for the recording:

25 "R-square is a number that indicates how

1 well this fiscal model fits the data."

2 The next part is "R-square value is the  
3 fraction of the total variation of expenditures  
4 explained in the model."

5 Do you feel like you're in class yet?

6 A little bit.

7 "Total variation is the sum of squares of  
8 individual expenditures from the average."

9 We did this slide last time and we felt it's  
10 important to keep it in for people who want to  
11 know what R-square is.

12 The next slide really is the one that I like  
13 a lot better because I'm more visual and it shows  
14 you - basically, we took a sentence from our last  
15 presentation, the R-square value is a measure  
16 reflecting the model goodness of fit. This is the  
17 part I get. The larger the number, the better the  
18 fit. Keep things simple. So if you have a higher  
19 R-square value, as we do in this slide right here,  
20 and you also see that the way that it works out,  
21 that's what we're trying to get. That's the  
22 object. That's why we're meeting to enhance the  
23 algorithm which was always meant to be. So the  
24 lower the R-square it's not quite as good a fit.

25 All right. The two tasks that we contracted



1 with Dr. Tao and Dr. Niu were evaluate and refine  
2 Florida APD's current iBudget algorithm. We've  
3 done most of that presentation already in the last  
4 meetings. Today we're really going to be focusing  
5 on this second part of the task which is update  
6 statistical models for the Florida APD's iBudget  
7 algorithm to identify new algorithm options.  
8 That's why we're here. All right.

9 Moving on, our famous discussion. I wish  
10 this term didn't refer to people because to me  
11 it's like outlier. No, we're people. But that's  
12 how it is in statistics. So as we talk about  
13 outliers, they're generally individuals in this  
14 case with individual budgeting, people who have  
15 extremely high or extremely low budgets. We've  
16 done a lot more research in this and we'll be able  
17 to answer more detail. So I'm sure there will be  
18 some questions on that.

19 Outliers can sometimes reduce the precision  
20 of the model estimation as a predictor and then,  
21 finally, in practice outliers commonly need to be  
22 detected and removed from the data. I have been  
23 one of the folks tasked at looking at other  
24 states. How do they do their algorithm? How does  
25 it work? And what we have found is that all

1 states have what you would call, if you're using a  
2 statistical model, outliers. It's part of the  
3 whole process.

4 However, with your input there are some  
5 changes that we, we listened, we wanted to make  
6 regarding the outliers. What we presented last  
7 time is that it was a typical 10% of the amount of  
8 folks would fall somewhere on this high or low  
9 range. Well, according to not only your questions  
10 but the testimony that was given in court by  
11 another statistician that you were much more  
12 comfortable - at least, you'd like to see much  
13 lower percentage of outliers, in this case 5%.  
14 That is what we were asked to do and that is what  
15 we have done basically.

16 I disclosed the 5% as the standard rather  
17 than the 10%. Let's look at the actual numbers of  
18 people that are involved with this. When running  
19 a new algorithm removing 5.1% of folks from those  
20 extremes, high and low for the most part, it turns  
21 out that there are 1,309 customers that are  
22 affected. If you remember the last time we met  
23 last month, it was closer to 5,000 I believe or  
24 somewhere of the overall outliers, which three to  
25 5,000 depending on what models we were running and

1 everyone thought that was extremely high. So at  
2 5.1% we are down to 1,309 consumers affected.

3 So who is affected? What do you mean?  
4 What's that mean at all? It's done by claims and  
5 I found it surprising that they were so evenly  
6 split. I wasn't sure. Were they all high? Were  
7 they all low? I didn't know. So 532 folks are  
8 below the \$20,000 claim threshold and then you  
9 have 564 above the \$50,000 threshold that we are  
10 terming, and Dr. Nu is terming, an outlier of the  
11 algorithm.

12 So what are the 213 down here? Someone's  
13 going to ask, Art, what's the 213? I don't  
14 understand that. Well, basically, it's the  
15 difference. So if you add all these up you're  
16 going to get 1,309 and the way it's described is  
17 there are always some people that might be between  
18 the \$20,000 and the \$50,000 and they still would  
19 be considered an outlier in the model. That's 213  
20 folks. See, we're getting into some detail this  
21 time. We're going to get even more detail as the  
22 presentation goes on.

23 What did you all ask for? What did people  
24 on the phone ask for? What were the comments  
25 we've received? We've received over time, over

1 the last five years. What your recommendations  
2 have been is look at caregiver H. That was very,  
3 very important to y'all, and we have done so.  
4 Also, caregiver provides care to others. You  
5 know, if you're a single mom it's a little bit  
6 different possibly than being in a family that has  
7 a husband a wife and is doing the caregiving. I  
8 know for myself, you know, God bless my mom and  
9 dad and I'm glad they're still here, but it's  
10 become more, more - a little bit more caregiving.  
11 You know, so that situation is arising for many of  
12 us, especially the Baby Boomers.

13 So we looked at different things: caregiver  
14 health status, caregiver employment status - as I  
15 just mentioned - and protective services  
16 involvement.

17 Do these things matter? Do they make a big  
18 impact and difference in the actual final amounts  
19 when you're running a statistical analysis for an  
20 allocation amount?

21 Additionally, you started getting into and I  
22 agree 100% with each of the caregiver, 50 was one  
23 of the discussions that we had. But then it went  
24 down to 45. Do I hear 60, 65? I mean, it was all  
25 over, right? But the good news is we've looked

1 all over and we're going to present this afternoon  
2 the outcomes of - does that make a difference?  
3 How does that make a difference potentially as far  
4 as caregiver age? You asked for carving out of  
5 transportation, dental, support coordination,  
6 environmental adaptations, and medical equipment.

7 Another comment and recommendation was the  
8 breakout of residential settings by rate levels.  
9 And the reason that's such a good comment is we  
10 did not have that five years ago. iBudget, the  
11 application, which is the computer system, we went  
12 from about 39 codes in ABC to 120-something now,  
13 meaning we're actually able to look at living  
14 settings in more detail, especially those that are  
15 group homes. So that's one of the things that's  
16 changed that you'll see increase the R-square  
17 value.

18 We wanted to include some data from the  
19 fiscal section of the QSI. You all did. We did,  
20 too. What's it look like? Why do you only use  
21 this one section of the QSI? I thought the  
22 Questionnaire for Situational Information was the  
23 whole person's life. So we're looking at all  
24 these factors and the recommendation was for more  
25 QSI questions.

1           Have I hit pretty much the mainstays that  
2 you remember from the previous conversations? I  
3 saw a couple of nods, so I'll go with that. I saw  
4 a double nod; I'm really going to go with that  
5 one.

6           Okay. At the request of stakeholders and  
7 some of the things that we've gotten through the  
8 e-mail system, we've been asked to look at other  
9 states with developmental disabilities' individual  
10 budgeting amounts. How did they do it? One of  
11 the comments was how did Wyoming particularly do  
12 it? They have a system called the 'DOOR System'.  
13 And the person who proofreads the Power Point,  
14 they put an acronym up there, he didn't say what  
15 it was. I'll tell you why because I don't know  
16 what it is. But it's called the DOOR System. I'm  
17 sure we could find out, but I just didn't get it  
18 for this slide.

19           So we did research in other states. We  
20 looked at are we missing something? Why is it an  
21 R-squared value higher somewhere else? Review of  
22 other states showed that there are some  
23 commonalities. All states use an assessment tool.  
24 I mean, but they are different assessment tools.  
25 But everyone starts with an assessment tool. Ours

1 is a question here for situational information.

2 Now, what all states have also done in all  
3 the research that many of us have been conducting  
4 is found that as an algorithm or a statistical  
5 model matures, is one way I would put it, that  
6 states have had to look at things like outliers,  
7 extraordinary needs - all these type of things  
8 that we're doing, and they've had to kind of layer  
9 it and say, well, how can we serve folks that are  
10 falling outside the goodness of fit model? So  
11 that's all really the difference in states. It  
12 isn't so much that we've done anything  
13 dramatically different in the statistical models;  
14 it's really about methodologies, how do you  
15 implement them. So that was kind of refreshing to  
16 see that that we're blessed with a new 0.79 that  
17 we're getting up to be one of the top in the  
18 nation if we go with this model, which is really a  
19 decision for the Agency and the State Board.  
20 That's why we're having this public meeting.

21 So significant factors were covered in the  
22 new algorithm analysis. All questions, every  
23 question that we have gotten, Eve has been the  
24 person typing them out and they'll be posted in  
25 the very, very near future. So I know they come

1 through (Unintelligible) and others, that we get  
2 them through legislative affairs, whenever we get  
3 them, we're going to put them on a chart, we're  
4 going to list them out and we're going to post  
5 them for everyone to see. Quite frankly, not  
6 everything's a question. Sometimes people just  
7 need to vent. That's okay. We're going to throw  
8 it all out there. And we'd like to say thank you  
9 for your comment if it's a venting, but there's a  
10 lot of good questions, too, and we hope we've  
11 covered them in the recap, where we came from  
12 right now, and now we're going.

13 So with that for the folks here in  
14 Tallahassee, if we could open it up to questions  
15 in that first part which is the recap, there's a  
16 little bit of information about where we're going.  
17 We have run new things and we're going to go into  
18 in detail in the next section.

19 But any questions so far? Suzanne?

20 Thank you so much.

21 MS. SEWELL: If we could go back to slide -

22 MS. ARNOLD: Could you state your name just  
23 for folks on the phone?

24 MS. SEWELL: Suzanne Sewell, Florida ARF.

25 If we could go back to slide 12, I did have



1 some questions on that slide.

2 MR. BARR: Yes.

3 MS. SEWELL: The number of claims below  
4 \$20,000 is 532; and I just didn't understand  
5 exactly what was being shown and what you meant by  
6 claims because when we used to look at this waiver  
7 two or three years ago, about half of the people's  
8 expenditures were around \$15,000 or below.

9 So what does number of claims with a \$20,000  
10 price tag for 532 people equate to?

11 MR. BARR: That's a great question and I'd  
12 like to hold you in case of a follow-up. The  
13 claims themselves, the number for these claims,  
14 are people that are outliers. There are still a  
15 tremendous amount of folks overall. In fact, I do  
16 have a breakdown. There's about 11 or 12,000 that  
17 are \$10,000 or \$20,000 and under, so we're not  
18 talking about all claims. We're only addressing  
19 outliers.

20 MS. ARNOLD: Yeah, but the - let me just add  
21 to that. What those numbers represent is, and in  
22 our current model there were a lot more outliers,  
23 because remember our outliers were close to 10%.  
24 So this is 1,309 people who the model doesn't -  
25 they don't fit within the model, kind of the bell-

1 shaped curve model. They're either way low or  
2 higher, and so the break-out of those is what this  
3 is trying to explain to you, that they're not all  
4 the people on the high end. There are some people  
5 on this low end and that's all we're trying to  
6 show is where they are.

7 MS. SEWELL: So when you say 'outlier' these  
8 people, when you look at these 1,300, according to  
9 the criteria and the standards, either should have  
10 been much higher or much lower if you're just  
11 applying the algorithm? Is that what -

12 MS. ARNOLD: That would be the assumption,  
13 yes, and those people - any outlier is someone who  
14 in our process in the past and continued process  
15 would always be looked at with an additional  
16 process that you look at, instead of just looking  
17 at an algorithm. So it's only 1,309 people; it's  
18 less than it was before; you're never going to get  
19 all of them unless, you know, you just want all of  
20 them in there in which case your prediction might  
21 go down some. But so the point is just to show  
22 you that it's some people that are lower than  
23 their, than the prediction would indicate and some  
24 people that are higher.

25 DR. TAO: Can I add some more to -

1 MS. SEWELL: And when you give the dollar  
2 amount was that all services included?

3 MS. ARNOLD: Yes, all services were included.  
4 We'll get to that in a minute.

5 MR. BARR: All services were included, just  
6 for the recording.

7 DR. TAO: So I want to mention a little bit  
8 more about outliers. So here we mention outliers  
9 extraordinarily low and high. This low and high  
10 is not just for the expenditures. That is at the  
11 same level of the leading study and the age, all  
12 of the staff, so we have this group of people. We  
13 look at all of the exponentials then we look at  
14 what is, like, this is the middle level and we  
15 look at whether they're spread too high or too  
16 low. So that's why you'll find there are some of  
17 the claims, some of the outliers with the  
18 expenditures less than \$20,000 but some of them  
19 greater than \$50,000; but still there are 215 or  
20 213 of them with expenditures between, between  
21 \$20,000 and \$50,000.

22 So this high or low is not just for look at  
23 the expenditures only. We look at other  
24 conditions as well. It's like we only look at  
25 people in certain group. It's not - it's like for

1 every group we look at whether it's  
2 extraordinarily high or low.

3 MR. BARR: Thank you.

4 MS. ARNOLD: There's a question back there.

5 MR. BARR: I'm sorry, I didn't see that hand.  
6 We've got one, two. Okay.

7 Welcome. Dr. Niu has entered the room.  
8 Appreciate having you and we'll just throw you  
9 right in the fire.

10 DR. NIU: Sorry, sorry.

11 MS. ARNOLD: No, you're good. We just got to  
12 the -

13 DR. NIU: My fault.

14 MS. ARNOLD: - to the question part, so  
15 you're perfect timing.

16 DR. NIU: We, we're just off, 2:00, 3:00 to  
17 5:00. So -

18 MS. ARNOLD: Okay. So, Nancy?

19 MS. WRIGHT: Nancy Wright with - representing  
20 the ARC of Florida. So do you have a mathematical  
21 definition for an outlier? Is an outlier, for  
22 instance, a - someone whose algorithm amount is X  
23 amount above or below the actual claim amount?

24 DR. TAO: Yes, there is a formal definition  
25 for the outlier. For short, it is after we fit in

1 the model, we look at the difference between the  
2 actual expenditure and the predicted or the  
3 estimated expenditure, and we calculate what is  
4 called a standard residual. That represents the  
5 distance between the actual value and the fitted  
6 value, and we use this standard residual to define  
7 outlier. If this standard residual is very - too  
8 high or too low then we determine it as outlier.

9 MS. WRIGHT: Okay. But you can't - if you  
10 determine a single person's algorithm, let's say  
11 somebody comes in and they're newly enrolled on  
12 the, on the, on APD and you run an algorithm, you  
13 can't at that point make any decision about  
14 whether or not they are an outlier, correct?

15 'Cause you don't have a claims -

16 MS. ARNOLD: That's correct.

17 MS. WRIGHT: - to represent then?

18 MS. ARNOLD: That's correct.

19 DR. NIU: That's correct, yeah, because for  
20 some, somebody, you see, the current dependent  
21 variable we decide to use the consumer's - they  
22 have one full year as they expand each. Also,  
23 they started the - at January 2013, so that's -  
24 for consumer they see either a waiting list or  
25 they just come in and say that the calculation not

1 apply to them.

2 MS. WRIGHT: So those people you'd have to be  
3 able to look at whether or not they're getting  
4 correct services based solely on that second step  
5 in the iBudget rule, which is to determine  
6 significant additional -

7 MS. ARNOLD: Yeah, thank you, Nancy. And you  
8 have to try to separate those two for the benefit  
9 of understanding the algorithm. You can't think  
10 too far ahead on what happens with new people  
11 because then you'll, you're just going to kind of  
12 get a little bit lost. Just keep it clean to who  
13 we're looking at, current waiver people who have  
14 been on long enough to have sufficient claims, and  
15 this is what it showed. It doesn't mean that's  
16 the way they're going to be treated as they come  
17 in. That's sort of a whole different discussion of  
18 how do you use an algorithm and what do you do for  
19 people as they come on board? That's, that's kind  
20 of the methodology piece. But right now we're  
21 still at here's how we ran the algorithm. So that  
22 may help a little bit, Nancy.

23 I know it's hard not to think ahead but I  
24 think it'll be helpful.

25 MS. WRIGHT: It's not possible.

1 MS. ARNOLD: And you're more than welcome to  
2 continue to ask the question because, you know, we  
3 need to have that discussion. But I'm just saying  
4 that that's not where we are at this moment.

5 MS. WRIGHT: Okay. And then I have a second  
6 question that is also statistically (inaudible)  
7 and the other one - the second question is, so  
8 when you do, you did that nice little slide with  
9 all the little points.

10 MS. ARNOLD: Can you go back to that?

11 MR. BARR: I can.

12 MS. WRIGHT: Yeah.

13 MS. ARNOLD: Page 8. I have a feeling that  
14 was going to be your question.

15 MS. WRIGHT: Yeah. I feel like I ought to  
16 get class credit for this.

17 So you have the higher R2 value - R-square  
18 value on the left-hand side. But what those dots  
19 are showing is the relationship between the  
20 algorithm and where they would hit on their actual  
21 claims.

22 DR. NIU: That's not anything with, as you  
23 say, an algorithm. Nothing related to the  
24 algorithm. That's just the illustration to show  
25 this kind of data, the left side you get a higher

1 R-square. The right depends on you get a lower R-  
2 square.

3 MS. ARNOLD: I think she's asking against  
4 what are you measuring it? You're measuring it  
5 against the claims data?

6 DR. NIU: Well, the response would be claims  
7 data. Claims -

8 MS. WRIGHT: So -

9 DR. NIU: Claim data, for example, age over  
10 something else. So whether that's the data, the  
11 picture is showing you here that's nothing to do  
12 with the algorithm. We did not say, that has  
13 nothing to do -

14 MS. WRIGHT: No, I understand this isn't your  
15 - our algorithm but a good R-square valued is  
16 shown on the left.

17 DR. NIU: Yes.

18 MS. WRIGHT: How does margin of - the  
19 statistical margin of error relate to R-square  
20 value because my understanding is that when you  
21 hit - when you get an algorithm there's a plus or  
22 minus that translates into a dollar amount of  
23 accuracy and I'm not sure how that relates to R-  
24 square?

25 DR. NIU: That's nothing to do with R-square.



1 R-square is just a fixed number. We, we don't  
2 have to like a interval you see a lack of interval  
3 have a plus/minus arrow for R-square. But for  
4 individual, you say, particular value we do can't,  
5 you see, also, you see, we also can't calculate  
6 for example interval. So this person, you see,  
7 instead of giving a number like \$20,000, we may  
8 have plus or minus three percent, so that's, you  
9 see, we can't do that stuff. So that's a measure  
10 of accuracy of that, you see, algorithm. But  
11 generally we still use \$20,000 but we can state  
12 that actually for this consumer there's probably,  
13 you see, that averages \$20,000 but they may have  
14 three - three percent, something, you see, some  
15 errors for it.

16 MS. WRIGHT: Do we know the margin of error?

17 DR. NIU: We - after we have the model, we  
18 know that, yeah. We can do that calculation.

19 MS. ARNOLD: So we will know once we run a  
20 model?

21 DR. NIU: Yes, yes.

22 MS. WRIGHT: Okay, all right. Thank you.

23 MR. BARR: Other questions? Thank you,  
24 Nancy.

25 Yes?

1 MS. SEWELL: Okay, still having trouble with  
2 slide 12 here.

3 MR. BARR: Okay.

4 MS. SEWELL: Let's take the \$20,000, the  
5 number of claims below \$20,000 is 532. So if I  
6 understand this, you ran the algorithm and you  
7 found 532 people, let's say they all had cost  
8 plans that were - or if their algorithm amount  
9 generated would have been \$100,000 each, say, and  
10 then could we say 530 came in with claims  
11 expenditures of \$20,000 and that was considered to  
12 be an outlier because it was so different from the  
13 \$100,000 projected?

14 Am I interpreting that correctly?

15 DR. NIU: (Unintelligible) - two algorithm  
16 below \$20,000, just a means for those consumers.  
17 The model turned out pretty well for them. So  
18 either it's because the condition, consumer, for  
19 example, somebody actually just got \$15,000 but  
20 actually based on the algorithm that because of  
21 that physical condition, the QSI question, they  
22 probably should get \$30,000. So that's, that  
23 condition is not a match with what they're getting  
24 now. So an algorithm easily predicts much higher  
25 or lower just for this, for those 532 persons, you

1 see, consumers, the model didn't predict well for  
2 them.

3 MS. ARNOLD: Am I right in saying it's not  
4 talking about how much money above or below that  
5 they need to have added; it's just simply showing  
6 that the model doesn't predict well for them and  
7 their claims happen to be in this range.

8 MS. SEWELL: They just had a poor prediction,  
9 what you're saying?

10 MS. ARNOLD: Yes.

11 DR. NIU: Poor prediction for those  
12 consumers, for those 532.

13 MS. SEWELL: Right.

14 DR. NIU: Generally, that's where they are  
15 using it too literal, but the algorithm give them  
16 help because of their condition other, you see,  
17 variables. That generally means -

18 MS. ARNOLD: If something's not matching up  
19 well.

20 DR. NIU: Yeah.

21 MS. ARNOLD: With the variables we're using.  
22 And we'll talk about in a minute all the different  
23 variables we use.

24 DR. NIU: So like consumers they live in a  
25 family home. They live, children live in the

1 family home. By their condition they may need  
2 about \$30,000 but they just - actually they are  
3 just using \$10,000 or \$5,000. We see a lot of  
4 cases the living family home, those consumers, we  
5 so appreciate them, they use just very little even  
6 in their condition that's much worse. They should  
7 get more but that's, you see, we need to pay  
8 special attention to them. So, you see, whether  
9 we can keep the lower or we have to, you see, the  
10 algorithm actually generally gives them more.

11 MS. ARNOLD: And that's again where once we  
12 define the process we would use as a result of the  
13 algorithm, we decide so what do we do with people  
14 like this. And as you know what we did  
15 transitioning in is they all got individual  
16 reviews and we assigned a final iBudget  
17 allocation. So that's typically what other states  
18 do with these outliers as well; they end up being  
19 someone you've just got to take a look at what it  
20 is and as you continue to run algorithms and get  
21 better data over time, you may end up picking them  
22 up later on, but at this point they're not,  
23 they're not, you know, we don't have a good  
24 prediction for them.

25 MS. SEWELL: One follow-up and I'll leave

1 this, I promise.

2 Was there a percentage variation between say  
3 the \$20,000 that's spent low - what if their  
4 amount had been \$30,000? Was there a number that  
5 you identified how much it had to vary to count as  
6 an outlier?

7 DR. NIU: So, actually Denise asked me. We  
8 have for each \$10,000 increment we have the  
9 numbers, we have numbers for each of \$10,000 from,  
10 you see, below \$10,000 actually we have 474  
11 consumers. They're outliers. Below \$10,000.  
12 That means they are using too little by the  
13 algorithm, based on that condition, functional  
14 condition, if they have a condition they should  
15 get higher. So that's - below \$10,000 is the 474.  
16 That's for the low end. You can see the outlier  
17 that's just for those people, they spend too  
18 little. But actually the algorithm, based on the  
19 algorithm they should get more.

20 Between \$10,000 and \$20,000 there's about  
21 58, 58. Okay. So we have, you see, for each  
22 tense on the increment we have a number how many,  
23 you see, there you see, we, we have actually for  
24 these people over \$100,000, we have 149. So there  
25 you see, for those consumers they're using over

1 \$100,000. Okay. For those people that's  
2 generally, again, that is a condition not imagined  
3 with what they got. For whatever reason, for  
4 example, somebody got - we have the highest one  
5 that's about \$315,000, so that's the highest one.  
6 So for those consumers generally, we use the  
7 algorithm. We could not catch that high. Okay.  
8 So that suggest that they are using too much, you  
9 see. That's, again, you need to pay special  
10 attention to have a (Inaudible) how to handle  
11 those consumers, they have low, they have some  
12 high.

13 MR. BARR: Are there any other questions on  
14 part one? I called it part one; I should have  
15 labeled it part one.

16 Okay. If not, I'm going to move these  
17 slides back and the next one then, Denise?

18 MS. ARNOLD: All right. So, again, for the  
19 folks on the phone I don't know if you're getting  
20 any questions - you have one question?

21 Okay. Can you go ahead and read what that is  
22 and we'll see if we can address the person's  
23 question on the phone.

24 FEMALE VOICE: Bob Gentry, Linda Miller, and  
25 Vera Cramer. At this time, does the model have

1 statistically significant measurement for outcomes  
2 of positive or negative seven?

3 MS. ARNOLD: Positive or negative setting?

4 FEMALE VOICE: Seven, seven, number seven.

5 DR. NIU: Not so clear. What's the question?

6 MS. ARNOLD: Don't know what the question  
7 means.

8 DR. NIU: No, so, what means the positive or  
9 -

10 FEMALE VOICE: Okay. Let me see can I get  
11 her to make it a little bit clear.

12 MS. ARNOLD: Okay. We'll go back to that.  
13 We're gonna move on then.

14 So, Art, if you'll help me remember we've  
15 got a question lingering over there.

16 MR. BARR: Sure.

17 MS. ARNOLD: For Eva. Thank you. Okay. So  
18 we're on slide 19. Okay.

19 So we're going to talk a lot more about what  
20 we looked at and this is just a little bit of a  
21 summary slide. We've already told you this but  
22 I'm going to tell you a little bit more. So we're  
23 on slide 19 for those of you on the phone.

24 The algorithm considers 126 independent  
25 variables many of which are new and were not used

1 in the current algorithm. So you would probably  
2 ask, well, what are those? So I'm going to tell  
3 you a little bit about what they are.

4 As opposed to, let me just tell you, 53 in  
5 our current algorithm, okay? So they're big, more  
6 than double the independent variables. And just  
7 to be clear an independent variable is a  
8 characteristic that you're using to try to predict  
9 the dependent variable. The dependent variable is  
10 the expenditures so you're trying to find all the  
11 characteristics that best predict what someone's  
12 expenditures are. I have to keep reminding myself  
13 of that as we talk about independent variables.

14 So we use all the QSI questions, so that's  
15 questions 1 through 50 and includes a lot of  
16 different pieces. We used several different flags  
17 if someone was in community-based care. If  
18 someone was on CDC plus, these were all  
19 suggestions that came from the stakeholders. The  
20 disease management flag that's in the FIMA (ph)  
21 system, the Medicaid system. We used disability  
22 type. We looked at do they get nursing services.  
23 We looked at some data from ABC if they had  
24 previously had been in jail or in the defendant  
25 program.



1                   Let's go to the next slide. Oh, do I have  
2                   it?

3                   MR. BARR: You do.

4                   MS. ARNOLD: Great, then I'll do it. How  
5                   about that? Okay.

6                   DR. NIU: I think you might have skipped one.  
7                   You may skipped one.

8                   MS. ARNOLD: There. Okay. So just so you  
9                   know, and we're going to get into more dependent  
10                  variables, but back to independent. The dependent  
11                  variable, again, is the claims from '13-'14 with  
12                  individuals removed that were not actively  
13                  enrolled as of January 1<sup>st</sup> or who did not have 12  
14                  months of expenditures.

15                  We included all expenditures, the second  
16                  bullet, all expenditures. We took no service  
17                  expenditures out.

18                  We'll talk about a little bit later you all  
19                  asked us carve out these, we did try that and  
20                  we'll tell you the results of that.

21                  We included the geographic rate  
22                  differentials; they are not taken out of the  
23                  expenditures. Okay. So that's what we did on the  
24                  dependent variables.

25                  MR. BARR: Backwards.

1 MS. ARNOLD: Backwards. I guess I hit it too  
2 long with my finger or something. So we're on  
3 slide 21 if I could get it there. There. Okay.

4 So the removal of the services that y'all  
5 talked about - waiver support coordination,  
6 dental, environmental adaptations, durable  
7 medical, and transportation - were tested. The  
8 inclusion of these services was also tested, so we  
9 tested it both ways. We took them all out and  
10 then we tested the algorithm and then we put them  
11 all back in and tested the algorithm. There was  
12 no difference in predictability. So that's pretty  
13 significant, whether you left them all in or you  
14 took those, that group that you all identified  
15 out.

16 Therefore, our recommendation is that we  
17 leave in all service expenditures as for the  
18 dependent variable and not carve out anything, as  
19 we previously talked about. And here's where  
20 we're going to stop and take questions about that.

21 MS. WRIGHT: It's Nancy Wright again. So I'm  
22 not sure, when I read the 2010 legislative report  
23 the statement was that these items, support  
24 coordination and dental, I think, yeah, all of the  
25 ones listed were not - were going to be part of a

1 separate fund because they weren't predictable,  
2 they weren't being - there was no way to  
3 accurately include a variable to predict these  
4 services.

5 MS. ARNOLD: Right.

6 MS. WRIGHT: So they would be separately -

7 MS. ARNOLD: But that was from 2010.

8 MS. WRIGHT: - from a reserve fund.

9 MS. ARNOLD: Correct.

10 MS. WRIGHT: So this is the opposite of what  
11 I was thinking you were going to do. I was  
12 thinking you would make sure that there was a way  
13 that if people weren't getting these services when  
14 they were medically necessary that there would be  
15 an easy way for them to be added to their funding,  
16 as opposed to trying to take them out of the model  
17 to use to determine the algorithm.

18 MS. ARNOLD: Right. So in a way it makes it  
19 a little simpler than what the 2010 report is.  
20 The 2010 report indicated that at that time we  
21 couldn't find a good predictor for that. When we  
22 put them in and tested them and took them out and  
23 tested them and came up with the same thing, then  
24 we do have a predictability for those services.  
25 There's not really any point in taking them out.

1           What you're talking about is again when  
2 someone gets their budget, do they have enough for  
3 medical necessities? So you're, you're getting  
4 into then what happens when I get my budget but I  
5 look at my budget that you've given me from the  
6 algorithm and it doesn't meet my need?

7           MS. WRIGHT: Right.

8           MS. ARNOLD: And what do we do with that  
9 individual review? That's, that's for the  
10 implementation methodology of what do we do when  
11 someone's needs can't be met with their budget.  
12 It's a great question, but in running the  
13 algorithm we're just trying to make sure is it -  
14 do we have the right variables to predict the  
15 expenditures? And this shows that we do and it  
16 doesn't matter whether you put those services in  
17 or you take them out. So why take them out and  
18 confuse the matter? Let's just leave everything  
19 in and run the algorithm.

20           DR. NIU: So, Denise, let me answer this.  
21 Okay. I think that's an important question. So  
22 there you say you say recommendation by our  
23 statistic team, we still gave two options. So the  
24 final, you say which one the Agency will use?  
25 That's - you need more discussion, you need more

1 discussion. Actually, from my own opinion I still  
2 believe that 2010 put the variable and those  
3 expenses aside, tried to put the (Unintelligible)  
4 back, but from the lawyer I heard that we have a  
5 status not allow to put, as you say, the money  
6 back for those geographical, you say, differential  
7 rate for those transportation. But for that, you  
8 say, for, for my team I still recommend at least  
9 two models, okay. So that, that final decision  
10 that was made by the Agency. But for the R-square  
11 that's identical. We get identical R-square,  
12 okay. R-squares. So that's - but, you see, I  
13 still believe what we did in 2010, that's the same  
14 that makes more sense. You see, that's more  
15 reasonable because the transportation tends to  
16 expenses, also those like durable medical devices,  
17 medical geography called differences. I still  
18 think that because of those consumers, they will  
19 feel a difference if we use this way or that way.  
20 I feel, I still feel the first way that's better,  
21 but so the R-square identical. Okay?

22 MS. WRIGHT: Yeah.

23 DR. NIU: The weeks were different, a little  
24 bit different.

25 MS. ARNOLD: Yep. So, yeah, great

1 distinction there. So all we're trying to say  
2 here is the R-squaring was no difference with  
3 both of them, with all the services in, take them  
4 all out, same R-square. So there's no, no  
5 difference there.

6 If in implementation you think there is a  
7 big difference and you need to, as he's described,  
8 go with the one where the services are pulled out  
9 for some reason, then we have to come up with a  
10 methodology of how do you put them back in, which  
11 we can do. That's just not the way it occurred  
12 last time. And, and so that's the important point  
13 here. We're recommending as an Agency to leave  
14 all the services in. We understand Dr. Niu's  
15 point. We've talked about it a lot. We are  
16 interested in your feedback on that. Okay.

17 And so I see Linda has a question. So is  
18 there another mic we can give Linda?

19 LINDA: You know, I think I'm still mixing up  
20 implementation and the R-square.

21 MS. ARNOLD: Yeah, it's hard to get them  
22 separate, it's hard.

23 LINDA: I'm not really into R-square, but -

24 MS. ARNOLD: Yeah.

25 LINDA: You know, when you have something

1           like environmental adaptations, you could have a  
2           huge amount of money spent that's a one-time -  
3           and, again, that may be the decision, do we leave  
4           it in? What happens what's carried over? But I  
5           guess I'm confused on why that doesn't influence  
6           the predictability or -

7           MS. ARNOLD: The R-square.

8           LINDA: - the R-square.

9           MS. ARNOLD: Well, my understanding is  
10          because - and Dr. Niu obviously needs to answer  
11          it.

12          DR. NIU: Yeah.

13          MS. ARNOLD: But when I think about  
14          environmental mod, it's not very many people that  
15          get it.

16          LINDA: Right.

17          MS. ARNOLD: So spread across doesn't make  
18          the predictiveness change much.

19          DR. NIU: Good answer, yeah.

20          So that's -

21          MS. ARNOLD: But you would like to add to it?

22          DR. NIU: So actually, you see, for  
23          transportation that's currently the base item,  
24          that's about May 2007, 2008, that's about  
25          14,000,000. That's about - and last year, 2013,

1 2014, that's about 21,000,000. So those numbers,  
2 that's the biggest one. The next one will be  
3 geophysical differential. That probably about  
4 eight to 9,000,000. But those numbers compared to  
5 the total about 100,000,000. That's still, you  
6 see, that's still not 100, that's 1,000. It's one  
7 billion. Okay. So then so when you compare the  
8 total value, you have those small adjustments.  
9 That does not affect the model, you see, that  
10 asked where, you see, the (Inaudible). Not effect  
11 that too much. But a little bit, okay. Even to  
12 distribute over, like, you have maybe 500 that use  
13 durable medical equipment. Now you distribute it  
14 to 30,000 or 26,000 so each - everybody cannot use  
15 it, too much money. So then, then, even that way,  
16 so when we use the model that's not effective  
17 model, that total predictability, the total.

18 But that's what makes the difference for an  
19 individual that wait. For those people, for  
20 example, people you see they need the geographical  
21 adjustment so that's - they, they - if we use  
22 (Unintelligible), they will get really relax. So  
23 that's, that's, you see, we need more discussion  
24 about this part.

25 MS. ARNOLD: Yep.



1 DR. NIU: Okay.

2 MS. ARNOLD: So just to kind of circle back  
3 on this one, again, we need to think about in  
4 implement - okay, so you know that it makes no  
5 difference in the prediction either way; you know  
6 that. So if you, if you took them all out and you  
7 got a much higher prediction that might tell us to  
8 do something different, but it didn't tell us  
9 that. It just said they're the same. But, again,  
10 that implementation question, if you think even  
11 though it's the same, it's very critical that we  
12 pull out transportation anyway and apply it back  
13 some way, that's, that's in the methodology and  
14 that's something we can talk about.

15 Any other questions on this one? We've got  
16 a lot to cover.

17 MR. BARR: Denise, we did have someone come  
18 back on line while you were on a discussion slide.

19 MS. ARNOLD: Awesome. Okay.

20 FEMALE: I think we've already answered this  
21 question. It is from Kathy Pinder (ph). She  
22 said, why were these particular services initially  
23 carved out? Why were these services, particularly  
24 why were they carved out initially? I think  
25 you've answered it.

1 MS. ARNOLD: I'll take a stab at it. But the  
2 reason why I think they were carved out is that  
3 some of them were one-time expenses, like dental,  
4 unless it's just cleanings, but that's a given for  
5 people. Environmental adaptations and durable  
6 medical equipment were one time things that we  
7 thought we would do something different in  
8 implementation with them and apply them and give  
9 that money for folks.

10 There's always still an opportunity for  
11 people to get significant increases if they have a  
12 need for those things.

13 The transportation is because the rates are  
14 so varied across the state and that was one reason  
15 why a lot of stakeholders said and because people  
16 couldn't afford some of the transportation that  
17 they previously had with their current budgets.  
18 So transportation was a hot item and that was why  
19 the stakeholders I believe, stakeholders, some of  
20 them are in the room here - waiver support  
21 coordination is a constant for everyone; everyone  
22 has to have one. Some have limited which is half  
23 the cost of a full support coordination, and so at  
24 the time it was thought that was going to, you  
25 know, affect it somehow. And so, you know, we

1 learn as we go on. But that was the reason.

2 FEMALE: She said thank you, she understands.

3 MS. ARNOLD: Okay. Thank you.

4 Okay. So we're going to move on to the next  
5 slide.

6 A CALLER: Are you going to take phone  
7 questions on the QSI?

8 MS. ARNOLD: I'm not sure what you mean.

9 A CALLER: Some different questions about the  
10 QSI or -

11 MS. ARNOLD: Yes, ma'am, we're just starting

12 -

13 A CALLER: Or that's for later on?

14 MS. ARNOLD: Yeah, it's later on. We're  
15 getting there.

16 A CALLER: Thank you.

17 MS. ARNOLD: Thank you.

18 A CALLER: Thank you very much.

19 MS. ARNOLD: Okay. So we're now on 23 and  
20 this is about the ages. Okay. So remember our  
21 current algorithm looks at under 21 and over 21.  
22 We looked at all ages, so it's not that we just  
23 looked at these - the way these are separated out.  
24 But this helped us kind of, as we looked at all  
25 the cross spectrum of the entire age and

1 expenditures, this is the way we kind of broke out  
2 the decades, if you will.

3 And then the next slide kind of talks about  
4 age group 21 to 30 showed a high claim mean or  
5 significance. So we already know under 21 and  
6 over 21 does, but 21 to 30 is even more  
7 significant. So there was a jump there in  
8 people's expenditures for 21 to 30. Makes sense  
9 to me. They're leaving school, things like that.

10 After removing outliers, the estimated waits  
11 for the last four age groups, 31 - so those last  
12 four decades - the remainder of those age groups  
13 31 to 40, 41 to 50, 51 to 60, and 61-plus, did not  
14 have that same significant change. Kind of  
15 surprising but that's what the data show.

16 DR. NIU: So let me mention. Here the 31, so  
17 this full group, they are still higher than the  
18 21-30 group, but this full group, they are most -  
19 almost identical. So we treat it as now there's  
20 three levels instead of either two or six, so we  
21 are doing 21 to 30 and the 30-plus. Okay. The  
22 30-plus they do get more money.

23 MS. ARNOLD: Right, and that's what this  
24 slide shows there. So that's what we're  
25 recommending for age variables at this point.

1                   And we'll go to questions on age from the  
2 audience here in the room.

3                   Any questions on that?

4                   MR. BARR: We'll go from back to front. Dr.  
5 Bowman (ph)?

6                   DR. BOWMAN: I was just curious from seeing  
7 the crisis cases that come in why 0 to 20 wasn't  
8 split in half or 0 to 10 and 11 to 20? We usually  
9 see folks coming in at the high end cost about age  
10 12, for example, and they're getting bigger, more  
11 aggressive, families are having a hard time  
12 managing them.

13                   DR. NIU: That's a good point. That's about  
14 2009-2010. We always think of that below 20, 21.  
15 We did not think 20 between for, for that group,  
16 you see, 0 to 20. So we did not - because  
17 everybody believe, you see, after 20 reaching 21  
18 the service will change, everything will change.  
19 But that's a good point. We may try it so, see,  
20 like a 0 to 12 to see if that makes a difference  
21 or not.

22                   MS. ARNOLD: Yeah.

23                   DR. NIU: That's a good suggestion.

24                   MS. ARNOLD: Yes. Other questions?

25                   Go ahead, Suzanne.

1 MS. SEWELL: Suzanne Sewell, Florida Health.  
2 We've commented and I think others have on several  
3 occasions about those who are mid-50s, 60s  
4 presenting with early onset dementia. And, okay,  
5 the age doesn't show it but is there a high degree  
6 of competence that when you start looking at the  
7 behaviors and the descriptors and some of the  
8 changes that you might by including the QSI  
9 questions and other assessments or whatever that  
10 you'll pick up those changes and behaviors, even  
11 if we can't tie it to age?

12 DR. NIU: Yeah, let me - the current model,  
13 you see, we are still working on. The final model  
14 we have not made the final recommendation yet, but  
15 we are doing - we are making very good progress.  
16 That's - the model currently much better, I  
17 thought, Suzanne, than what we got in the year  
18 2009-2010. So we have more, you see, QSI score  
19 like that, you see, we have in part. Also, you  
20 see, fiscal part. They come in to the current  
21 model. But after we consider all other kind of  
22 factors, so for the age, okay, so I tried all  
23 that, you see, several options. So if we are, for  
24 example, we - currently we have 0 to 20, that's  
25 one group; 21 to 30, that's another group. That's

1 a jumper then. Then I tried, for example, we have  
2 31, for example, 31 to 50 or to - then you see you  
3 will see if you have one more level, that level  
4 will get lower. That is why - that's why we have  
5 the people at 31 to up, as they, you see,  
6 catapult. Otherwise, if we have more levels  
7 later, so even though they are almost identical  
8 they can lower than that, you see, the 31, for  
9 example, 31 to 40 group.

10 MS. ARNOLD: Yeah.

11 DR. NIU: So that's why, you see, we keep -  
12 you see, people - we discuss about the should we  
13 go down to 50 or 45, now 31. That's - we down all  
14 the way to 31 and up. Okay.

15 MS. ARNOLD: And in answer to how we will  
16 capture sort of the functional loss that people  
17 have when they get Alzheimer's, I think we will  
18 capture it through the QSI as well as the res hab  
19 levels that are a little more distinctive in this  
20 model that we're looking at 'cause we see that a  
21 lot for people in group homes, definitely see  
22 their support level needing to go up as they lose  
23 functionality.

24 So back here and then Linda.

25 MS. JACKSON: Yeah, that was my question,

1 too. I'm Kathy Jackson, ARC of the St. John's.

2 One of the questions I did have is when  
3 you're getting into the 51 and plus, that does  
4 encompass a lot of the individuals with Down's  
5 syndrome who are moving into Alzheimer's, those  
6 kinds of things. But because there's so little  
7 availability of residential nursing those  
8 expenditures are not being expended possibly  
9 through things that they need.

10 MS. ARNOLD: That could be.

11 DR. NIU: Yeah.

12 MS. JACKSON: And that we have found that  
13 under the Medicaid stay plan that there are no  
14 providers out there that can implement that, so  
15 I've got a feeling that that needs to be looked at  
16 more closely.

17 MS. ARNOLD: Gotcha. Yeah, and I think, you  
18 know, as we move along we can look and see if that  
19 does change, but I hear you. We may not be seeing  
20 it in the claims. But I do think those res hab  
21 levels definitely will catch it and I think if  
22 someone's functionality is decreasing, the QSI  
23 will pick that up and that's why it's so critical  
24 if people get the QSI updated if that's occurring.  
25 Now, there may be some other nuances that, you



1 know, the QSI won't pick up and I know we've  
2 talked about as a state some other screening that  
3 we may want to put in place for folks in that 40  
4 and 50 age group that some of the folks that are  
5 really good at the Alzheimer's issues have  
6 suggested, and that maybe could be a way to help  
7 families and group home operators sort of predict  
8 or see over time that functionality is being lost  
9 versus, you know, requesting a new QSI every month  
10 to see. I mean, that's kind of unreasonable but I  
11 think there are some other screening tools, and if  
12 we have data over time then any future algorithm  
13 changes that we kind of start picking up on will  
14 start to show up.

15 It's definitely a big need. We were  
16 surprised we didn't see it, but then we thought  
17 about the claims as well, and maybe we're just not  
18 seeing the services in place that need to be put  
19 in place.

20 Linda?

21 LINDA: Denise, mine is a comment more than a  
22 question. And, again, I'm sorry it's on  
23 implementation but, you know, I have a concern  
24 with defining the ages that, you know, it becomes  
25 really important that you set up and I know this

1 is preaching to the choir probably, but some  
2 systematic application. So either through re-  
3 initiation of the QSI or as the algorithm is  
4 refined over time because one of the biggest  
5 issues we have right now is responsiveness to  
6 changing needs.

7 MS. ARNOLD: Mm-hmm.

8 LINDA: So, you know, you can't carve out  
9 that group and, and some of it may simply be -

10 MS. ARNOLD: Okay.

11 LINDA: - that we don't have good data right  
12 now.

13 MS. ARNOLD: Right.

14 LINDA: You know, we just aren't seeing the  
15 services that would meet the needs. The end  
16 implementation we assured that there's some  
17 procedures so that -

18 MS. ARNOLD: Good point.

19 LINDA: - they're systematically looking at  
20 needs and what the system is -

21 MS. ARNOLD: Okay. Yeah, that's a good  
22 point, that if people are in that age group we  
23 need to be kind of delving in a little bit. Yeah,  
24 okay.

25 MR. BARR: We have one more computer question

1 or folks on the computer?

2 FEMALE VOICE: Here's another question from  
3 Candy Pinder.

4 What is the significance of the age groups?  
5 Younger groups get more points, older groups get  
6 more points. Please explain.

7 What Dr. Niu did is looked at expenditure  
8 data and correlated it to age, and so where the,  
9 the expenditures became higher is when someone  
10 reached age 21 and above, and that's indicative of  
11 the State of Florida where 0 to 21 our Medicaid  
12 state plan provides many, many services. And so  
13 in trying to predict the waiver cost the claims  
14 aren't going to be there. So, typically, someone  
15 under 21 gets less money in algorithm than someone  
16 older than that, and that would be the case in  
17 this example with 31 plus. They would get  
18 additional because there's, there's an additional  
19 need showing up there.

20 Okay. We're going to move on then to living  
21 setting, I believe. Yes. Okay.

22 So living setting, we did a lot of work on  
23 living setting at y'all's request. We, of course,  
24 kept family home, independent living, and  
25 supported living as a variable we were looking at.

1 But in the licensed facilities we looked at the  
2 service procedure codes. So we got down to the  
3 very nitty gritty of, you know, 22 different  
4 break-outs of residential habilitation, whether it  
5 was minimal, basic, behavior focused, intensive  
6 behavior, all the different extensive one's,  
7 extensive two's, all of those variations in the  
8 res hab rates. The intensive behavioral and then  
9 the C-TIP rate for the one facility that does C-  
10 TIP. Special medical home care as well.

11 So we looked at all of them and a bit  
12 cumbersome to look at all of those, so then we  
13 took a little bit of another step and we tried  
14 grouping them by the level of description in the  
15 res hab levels. You remember there's basic,  
16 minimal, moderate, extensive one, and extensive  
17 two. So we took another look at that and grouped  
18 them so that there weren't - wouldn't be so many  
19 different variables for someone living in a  
20 licensed facility. That would be 19 different  
21 ones that would really over-emphasize a group home  
22 setting versus there's one indicator for family  
23 home and one for supported living and independent  
24 living. So you don't want for two-thirds of the  
25 people that live in their own home or supported

1 living to have only two factors and the seven or  
2 eight thousand that live in group homes to have  
3 19. It just - it was out of balance, so we  
4 grouped them.

5 And here's how we grouped them: Group one is  
6 all the basic and minimal residential  
7 habilitation, whether that's in standard or  
8 behavior focus. Group two is all the moderates,  
9 anything in standard or behavior focus, as well as  
10 residential live-in if there's a residential live-  
11 in rate. Group three is all the extensive one and  
12 extensive two levels, both behavior and standard.  
13 And Group four is all the comprehensive training  
14 education program and any intensive behavior rates  
15 and special medical home care. So there's four  
16 different groups now for living setting.

17 So, again we - what we recommend for the  
18 independent variable for the living setting is to  
19 keep family home, to have supported living and  
20 independent living together, and then to have four  
21 break-outs for residential group settings, the  
22 four we just went over.

23 Questions on that, residential setting,  
24 living setting?

25 MS. WRIGHT: So I'm wondering if there are

1 predictors where you could do a similar breakout  
2 in family or supportive living. Family bothers me  
3 the most because, because it's so variable what  
4 the needs might be, but that's one place where I  
5 wonder where having a single caregiver might be a  
6 predictor to break out. Supportive living, maybe  
7 you could look at, you know, whether there needs  
8 to be a limit or not. This is off the top of my  
9 head, but it seems like if you're going to break  
10 out for - if the break-out works so well for, for  
11 the res hab, there might be something also that  
12 you can find that results in that same sort of  
13 predictor of claims -

14 MS. ARNOLD: Okay. Yeah, and we talked a lot  
15 about that. Your suggestion about supportive  
16 living, do they need a live-in, I hadn't thought  
17 about that one. I don't think any of us did.  
18 Maybe we should look at that. That's probably -  
19 that may show something different for - 'cause  
20 you're right. If they've got the live-in, they  
21 may, you know, probably need more supervision and  
22 support.

23 MS. WRIGHT: Yeah, yeah.

24 MS. ARNOLD: We did, we did look at that and  
25 we'll go on a little bit when we get to that at

1 the caregiver age. We looked at the situation in  
2 the family home based on the QSI addendum  
3 questions, so we'll talk about that in a little  
4 bit. But basically it didn't show any predicted  
5 value because we were capturing so much from the  
6 QSI, that when you added those factors in there  
7 was nothing new added to the prediction. So,  
8 apparently, that is being caught by all the QSI  
9 questions that are coming in and we'll talk about  
10 the QSI questions in a minute 'cause there's new  
11 ones that it looks at, not just the ones that we  
12 did in our current model.

13 MS. WRIGHT: Okay.

14 MS. ARNOLD: But that's a good point about  
15 the live-in; that may be something that helps a  
16 little bit.

17 MR. VINSON: Dave Vinson, the Arc of St.  
18 John's. I have a question about how you broke  
19 down the residential habilitation. I would think  
20 by combining, say, for example, basic minimal  
21 you've got a fairly higher cost in each of those  
22 categories of one versus the other, especially  
23 when you get up to, like, extensive one be in  
24 group with extensive two, you know, that's going  
25 to be somewhere a \$20,000 different cost over a

1 year's time. So by putting those into those sub-  
2 groups, anybody who's currently at the higher part  
3 of the sub-groups right now, you know, would  
4 probably do less well on the algorithm as opposed  
5 to the one that's on the lower.

6 MS. ARNOLD: Are you speaking just of the  
7 basic and minimal or all of the groupings?

8 MR. VINSON: All of the groupings except for  
9 possibly the last one.

10 MS. ARNOLD: Okay. Well, I mean, we'll  
11 certainly re-look at it but it didn't look that  
12 way from the data. It, it looked like those were  
13 natural groupings. There was not a lot of  
14 difference in, in who got extensive one versus  
15 extensive two. We'll look at it again.

16 MR. VINSON: Thank you.

17 MS. SEWELL: I think I'm fine. I would just  
18 add on and say there's not maybe that much in  
19 terms of the descriptors, but if you look at cost  
20 between extensive one and two -

21 MS. ARNOLD: Okay.

22 MS. SEWELL: - I, I've got the same concern  
23 that you do. I would like to maybe see the cost  
24 spread or just an example, you know, to take what  
25 you have here and then how that breaks out in



1 actuality because -

2 MS. ARNOLD: Okay.

3 MS. SEWELL: - there are some concerns with  
4 this one.

5 MS. ARNOLD: Okay.

6 MS. SEWELL: I can't put my finger on that.

7 MS. ARNOLD: Yeah, that's a good point. We  
8 will look at the cost spreads a little closer.

9 MR. BARR: Other questions? Okay.

10 MS. ARNOLD: All right. So now we're going  
11 to go on to the QSI independent variables. So  
12 we're very used to thinking about in the QSI the  
13 behavior section, the functional section, and the  
14 physical status. But there's a whole other  
15 section which is identified on this slide 51.  
16 Excuse me 50 - excuse me, 32. I don't know where  
17 I got 51. Let's get back here. Okay, 32. My  
18 numbers are a little different. Sorry, y'all.

19 So the number one that's listed here,  
20 community inclusion, life change, and adjustment  
21 information was not used in our previous  
22 algorithm. It includes a lot of information about  
23 community living, changes that have occurred,  
24 particular mental health issues people have had.  
25 So some of those turned out to be significant and

1 we'll look at that in a minute. So when we say we  
2 used all the QSI questions, we used them all last  
3 time but only in functional, behavioral, and  
4 physical. Okay. We used all those questions. Now  
5 we're using those plus what was in that earlier  
6 piece, and that earlier piece just so you know is  
7 not what calculates into an overall level. You  
8 know how the QSI comes up with five different  
9 levels - one, two, three, four, five. The  
10 community inclusion is not the section that  
11 calculates that which is why we previously chose  
12 functional behavioral and physical thinking.  
13 Well, we'll pick the ones that calculate into the  
14 levels, but we really purposely wanted to look at  
15 every single data point in the QSI and so that  
16 gave us some good results that are very  
17 interesting.

18 So we're going to talk a little bit about -  
19 the next slides tell you a little bit about which  
20 QSI independent variables were significant. So  
21 obviously transfers, that's still in our current  
22 QSI. If someone needs help with transfers, the  
23 more help they need, then they're going to need  
24 additional staff to help. Hygiene, same way, if  
25 they need help taking care of themselves,

1 dressing. And then a new one came - self-  
2 protection. I think dressing actually is the new  
3 one. Sorry. Self-protection was already in  
4 there. Can they evacuate on their own or do they  
5 know how to get out of danger?

6 So the new one is the dressing which was  
7 question 21 out of the functional area. In the  
8 behavioral section, inappropriate sexual behavior,  
9 question 28, came out as very significant. In the  
10 physical status which y'all were very interested  
11 in seeing that included, and it was included last  
12 time; it just didn't show any correlation last  
13 time but it does this time.

14 The use of mechanical restraints or  
15 protective equipment, which is question 34, was  
16 very significant; and the use of psychotropic  
17 medications, question 36. Those seem to be  
18 appropriate.

19 And here's where the new section comes in,  
20 the community inclusion and the life change. So  
21 there's a question that talks about, have you had  
22 any of the following in the past 12 months?  
23 Something like that. I'm not quoting it. If  
24 anxiety disorder was indicated, that was  
25 significant. And that's out of question eight.

1 If a person could use transportation or the level  
2 of support they need to use transportation was  
3 significant. So if they need more help to use  
4 transportation, that's more significant to, to  
5 more needs of someone helping them, either paid or  
6 unpaid.

7 Person attending and participating in  
8 community clubs, organizations, and activities,  
9 that's question 12. Again, the more help they  
10 needed the more significant that would be related  
11 to cost.

12 So those are brand new interesting results,  
13 I think.

14 The QSI addendum, Nancy, you brought up the  
15 questions about the situation with the caregiver  
16 in the family home. We did a QSI addendum and the  
17 - when we ran it with all of the variables I just  
18 described, there was not any additional predictive  
19 value to those questions. And just as a reminder,  
20 those questions are about the age of the primary  
21 caregiver; the unemployment of the caregiver due  
22 to primary caretaking; any, any adult that's been  
23 removed from a living setting by protective  
24 services; if there's others in the family home  
25 that need care or if the primary caregiver is

1           unable to give care due to health of that  
2           particular caregiver. So, although it's an  
3           important question and certainly seems, you know,  
4           to be factors that would pop out, apparently  
5           they're captured through the other variables  
6           because when you add them in nothing new is  
7           resulting from adding them in.

8                     And Dr. Niu may want to explain that more,  
9           but let's see if you have questions. So our  
10          recommendation is obviously to use the variables  
11          we just identified, which does not include those  
12          caregiver questions because they, they just - but  
13          the other thing is, and I think it's important to  
14          note, we want to continue to capture that  
15          information and we have it on a certain number of  
16          people on the waiver, we'll continue to get it on  
17          everyone, and that may change over time as we get  
18          better data and more people that have that data.  
19          But right now that's where it shows.

20                    And, and you have to be able to use data  
21          that obviously is available even if you think,  
22          well, if you ask this question or if you ask that  
23          question, well, we would have to collect data for  
24          a period of time, have reliable data on that piece  
25          of information, and then run it to know whether it

1 made any difference. So that's what we did with  
2 the, the addendum questions but they just didn't  
3 add any, any predictive value.

4 Questions?

5 MS. SEWELL: Denise, I'm just curious. You  
6 know, you've broken out the residential and  
7 however we end up there, I think that's a really  
8 good move to have more detail there, but I'm  
9 concerned about other services where you have  
10 levels that are tied to behaviors or -

11 MS. ARNOLD: Okay.

12 MS. SEWELL: - specific rates, like ADT where  
13 you have the need for one to one, one to three,  
14 one to five.

15 How is that captured when you get into  
16 settings other than by residential?

17 MS. ARNOLD: Wel, I mean, they're all part of  
18 the claims data. They're all - those QSI  
19 questions are pretty correlated to those ratio  
20 levels. I don't know that we separately tested  
21 that and we certainly can, like we did with res  
22 hab. Are there any others, other than ADT? Let  
23 me think.

24 MS. SEWELL: Some of the live-in and some of  
25 the -

1 MS. ARNOLD: Yeah, somebody mentioned the  
2 live-in already.

3 MS. SEWELL: - companion, you've got the  
4 ratios -

5 MS. ARNOLD: The ratios with companion.

6 MS. SEWELL: Yeah, yeah.

7 MS. ARNOLD: Okay. Okay.

8 MR. BARR: Thank you.

9 MS. WRIGHT: Hey, sorry, me again.

10 So if you start using services, and I know  
11 that services are - in other places have been a  
12 decent predictor. Once again, thinking forward,  
13 I'm not sure how you would, you would do an  
14 algorithm for someone who's never had services  
15 before. You see my question?

16 So if you, if you have someone who is new to  
17 the, to the program and they're not getting ADT  
18 but you want them to get ADT, I guess you'd have  
19 to make a decision as to what level they would  
20 need to -

21 MS. ARNOLD: Yes, for implementation, we  
22 definitely would, yeah.

23 MS. WRIGHT: - for implementation. Okay.

24 MS. ARNOLD: Yeah, yeah. Good point.

25 MR. VINSON: Dave Vinson of the ARC at St.

1 John's again.

2 My question with folks who are in supportive  
3 living and also receiving home supports, does that  
4 get - I mean, obviously the folks who have in-home  
5 support, especially live-in in-home supports - and  
6 I'm not sure whether this is a repeat of Nancy's  
7 question or not, but if they would be in  
8 supportive living, but they're also receiving that  
9 other service.

10 Is that, is that looked at in this case?

11 MS. ARNOLD: Well, we did not pick it out  
12 specifically to test it separately and we can do  
13 that. Y'all have recommended that. All of that's  
14 in the claims data, but in terms of looking at  
15 that separately like we did the res hab  
16 predictors, that's a good point and we'll, we'll  
17 look at that.

18 MR. VINSON: Thank you.

19 DR. TAO: We used that last time.

20 MS. ARNOLD: Yeah.

21 DR. NIU: So, Denise, may I make a comment?

22 MS. ARNOLD: Yes.

23 DR. NIU: Okay. I would like to, to, you  
24 see, Denise gave a very good discussion about the  
25 current algorithm that seems to come out.



1           When we do this modeling we also think that  
2           because res hab, now we feel that four categories  
3           specific categories for res hab that captures a  
4           lot of information for that group. We do feel,  
5           you see, we need to pay more attention to family  
6           and the independent and the supportive living. So  
7           we need a binder, you see, for example, eventually  
8           if we have some categories. Because the family  
9           home and the independent - the supportive living  
10          that counts about over two-thirds of our consumer.  
11          We need to continue to better classify those  
12          consumer, these two categories.

13                 This time because we don't have other  
14                 variables available yet, this time we didn't  
15                 consider about interaction. The interaction,  
16                 those QSI scores, how they interact with those  
17                 three groups - that's family home, that's  
18                 supportive living, and res hab. So we do, for  
19                 example, we consider the family home and the  
20                 supportive living. Those consumers with higher  
21                 scores, the summation of scores, how you see  
22                 that's akin to try to classify the consumers in  
23                 that two groups. Okay.

24                         MS. ARNOLD: Mm-hmm.

25                         DR. NIU: We have what we call the

1 interaction term. We do have one interacting term  
2 for family for the behaviors that (Inaudible) -  
3 less going to family, that's way more practical  
4 for some of the living, we have two of them. One  
5 that is behavior goal and one that's a function of  
6 the goal. So we, we, we think something try to -

7 MS. ARNOLD: Yeah.

8 DR. NIU: - use a classified interactive  
9 term, I think that's, that's a good improvement  
10 over the last model.

11 MS. ARNOLD: Yeah.

12 DR. NIU: That's because we feel those people  
13 living in family home, some people are just even  
14 spend less, much less money, so we should have  
15 give, you see, much more consideration and try to  
16 do a better job to see what we can do. I think  
17 that, that, you see, the new variable, we are  
18 collecting even, even though currently seems not  
19 significant yet. After we consider all other 126  
20 variables, additional information, seems not  
21 significant but we discussed, we think we need to  
22 continue to collect the information. Maybe  
23 currently we have about 33 solid, maybe after we  
24 have the total -- currently in family home we have  
25 about close to, I believe it's about 12,500. So

1 if we have all the information, they may, they may  
2 become significant, they may be useful.

3 Anyway, I think we are thinking we have many  
4 meetings together. We trying to do better in that  
5 family home situation and also that supportive  
6 living, independent living, for that two group.

7 MS. ARNOLD: Yeah.

8 DR. NIU: Okay.

9 MS. ARNOLD: Yeah, and they've given us a  
10 couple of suggestions about that live-in, Dr. Niu,  
11 that we haven't, I don't think really checked and  
12 we will. But, yeah, I forgot about the  
13 interactions that we did look at with that. So  
14 that, that has some potential, too, to be in the  
15 algorithm. So, good, thank you.

16 Other questions? Yes, Eva?

17 MS. FAMBRO-PRICE: Next question. Questions  
18 about a person's physical functioning seems  
19 inadequate. While it identifies those who go in  
20 wheelchairs, it misses persons who have cerebral  
21 palsy, for example, have trouble walking and  
22 accessing the community physically.

23 MS. ARNOLD: Thank you for that question.

24 MS. FAMBRO-PRICE: That's from Kay.

25 MS. ARNOLD: Okay. The trouble walking or

1 any kind - when you have cerebral palsy and it  
2 affects your functioning, it's going to show up in  
3 the functional section. So it's going to show up  
4 in the - and I don't remember the question number  
5 but if you are able to walk on your own it's going  
6 to show up there.

7 What was the other?

8 MS. FAMBRO-PRICE: While it identifies those  
9 who are in wheelchairs, it's their physical  
10 functioning, and then that's where she said it  
11 misses -

12 MS. ARNOLD: Right.

13 MS. FAMBRO-PRICE: - the person who has  
14 cerebral palsy.

15 MS. ARNOLD: Okay.

16 MS. FAMBRO-PRICE: And has trouble walking  
17 and accessing the community physically.

18 MS. ARNOLD: Okay. And then the accessing  
19 the community, I was just talking about that  
20 community life question that would be a new one.  
21 So it would show up there if they need more  
22 assistance in transportation or need more  
23 assistance in community participation, it's going  
24 to capture that. So I think the caller's concern  
25 on that is going to be addressed by the other

1 questions because we certainly don't want to leave  
2 folks out that have cerebral palsy. So I think  
3 they're, they're captured but, you know, you can  
4 certainly give us more feedback on that as you  
5 look through that again.

6 Okay. We're going to go to the last -

7 MS. FRENCH: I have a, I have a couple of  
8 questions on the QSI and as it pertains to  
9 cerebral palsy, if I could.

10 MS. ARNOLD: You sure could, and could you  
11 identify yourself?

12 MS. FRENCH: Yes, this is Gail French. How  
13 are you?

14 MS. ARNOLD: I'm good. How are you, Gail?

15 MS. FRENCH: I'm not hearing y'all real well  
16 and my computer isn't working right, so I haven't  
17 seen any presentations or anything.

18 MS. ARNOLD: Oh. Well, that would be a  
19 disadvantage.

20 MS. FRENCH: Yes, I'm just here in the dark.  
21 But I have a question first of all on the question  
22 number 18 for transfers.

23 First of all, what is the purpose of  
24 question number 18 for transfers? Would you  
25 explain?

1 MS. ARNOLD: Sure. Question 18 is trying to  
2 ask the question of how people transfer; are they  
3 able to do that themselves? And so the 0 to 4  
4 markings on the QSI, 0 means you can transfer  
5 independently; 1 means you need someone to  
6 supervise; 2 means you need physical assistance of  
7 one person so you're able to do some of it, but  
8 one person's got to help you; a 3 means you need  
9 physical assistance of two people to help transfer  
10 or to change position; and a 4 means needs lifting  
11 equipment procedures, so you'd need actual  
12 equipment to help transfer and move. And so that  
13 question is trying to get at how much support do  
14 you need in order to transfer out of your chair.

15 MS. FRENCH: Then that would lead up to my  
16 second question and it is on transfers.

17 If the individual has cerebral palsy and is  
18 considered a total lift, does not assist and  
19 cannot assist with transfers, they require total  
20 physical assistance or non-ambulatory, but they  
21 don't have lifting equipment, and all of the  
22 question number four there is applicable to them  
23 but they don't have lifting equipment due partly  
24 because of their medical condition, do - are there  
25 ever extenuating circumstances to score them as a

1 higher score number four, versus maybe with one  
2 person lifting them? Now, bear in mind they  
3 cannot assist with transfers. Are there ever  
4 extenuating -

5 MS. ARNOLD: Right. Well, that's a great  
6 question. I am not a certified QSI assessor, so I  
7 don't want to make a statement on that without  
8 knowing exactly what the training has indicated.  
9 My read on it would be that they would be a three,  
10 but that's not an official response on that.

11 So I can get someone to give you a call,  
12 Gail, and we can talk that through so that you can  
13 get a more concise answer on that. Thank you.

14 MS. FRENCH: Okay. And may, may I ask you -  
15 and there's like two more questions on that.

16 MS. ARNOLD: Sure.

17 MS. FRENCH: For the self-protection  
18 question, I think it's number 23, there again if  
19 the person physically has no means of defending  
20 themselves because of their disability and doesn't  
21 have alarms and they're non-ambulatory, et cetera,  
22 it would apply the same as what I had just asked  
23 you.

24 Are there ever extenuating circumstances for  
25 these individuals?

1 MS. ARNOLD: Yeah, I would not -

2 MS. FRENCH: And I guess that you would not  
3 have the answer to that because you're not a QSI  
4 assessor.

5 MS. ARNOLD: Yeah, so we'll get you - we'll  
6 have a call with you about the transfer question  
7 and the self-protection.

8 Did you have another one that was an  
9 example?

10 MS. FRENCH: Yeah, I did. I just wanted - my  
11 fourth question about the QSI is after the QSI is  
12 completed by the assessor, who determines the  
13 overall score for the level of need?

14 Is it the QSI assessor or is it the actual  
15 Agency supervisors that make the final  
16 determination for the overall QSI score?

17 MS. ARNOLD: Are you speaking of whether  
18 they're a level one, a level two, a level three, a  
19 level four?

20 MS. FRENCH: Correct, yes, and, and -

21 MS. ARNOLD: The computer has a form -

22 MS. FRENCH: - who makes the final -

23 MS. ARNOLD: Yeah. The computer has a  
24 formula in it and once the values are entered it  
25 calculates based on the, the factors that are in



1 the QSI tool.

2 MS. FRENCH: Okay.

3 MS. ARNOLD: So it's an actual database that  
4 has a calculation built in based on the questions.

5 MS. FRENCH: Okay. I appreciate that.

6 MS. ARNOLD: Sure.

7 MS. FRENCH: I have a couple of questions for  
8 Dr. Niu and then I'm all finished.

9 MS. ARNOLD: Okay.

10 MS. FRENCH: If I could?

11 DR. NIU: Yeah, sure.

12 MS. FRENCH: Hi, Dr. Niu.

13 DR. NIU: Yeah.

14 MS. FRENCH: How important is it for the QSI  
15 overall scores to be accurate on the levels of  
16 need in your statistical data?

17 DR. NIU: That's very important. Everything  
18 relies on data. Okay. We do need those consumers  
19 the QSI score to be as accurate as possible.  
20 That's - I believe the Agency definitely realizes  
21 the, the importance, I believe, and they are doing  
22 their best to try to make this accurate, accurate,  
23 yeah.

24 MS. FRENCH: Okay. Well, if the overall QSI  
25 score for an individual is seemingly inaccurate

1 and shows a lower level of need, then how can that  
2 individual or others like them ever have a  
3 statistically validated relationship to their  
4 level of need if it's an inaccurate lower level of  
5 need than it should actually be?

6 DR. NIU: So for, for each individual that's  
7 why I think we need updating those, you see, QSI  
8 scores, you see, definitely need to make them for  
9 each consumer. That's a major difference, big  
10 difference. Overall, for one consumer that may be  
11 not a factor algorithm too much, but for those  
12 consumers, each one is so important for us we want  
13 to make sure that's as accurate as possible for  
14 them because if one of the consumers, their score  
15 is not accurate, then the calculation would be  
16 off. That would mean they would not get the money  
17 they should have got or they get more money than  
18 they should get. Okay.

19 MS. FRENCH: Okay. Thank you. Thank you  
20 very much.

21 DR. NIU: Yeah.

22 MS. FRENCH: There was just one other  
23 question.

24 MS. ARNOLD: Well, Gail, let me just say  
25 something on that as well.

1 MS. FRENCH: Sure.

2 MS. ARNOLD: Any time an individual questions  
3 their QSI assessment or doesn't think it's  
4 accurate, they need to contact our Agency so that  
5 we can send someone out or talk to them, at least,  
6 about what their concern is.

7 MS. FRENCH: Okay. Okay.

8 MS. ARNOLD: Sometimes people's concern is  
9 they didn't understand the question and once you  
10 talk to people on the phone then they understand  
11 the scoring, but if that's not the case we will go  
12 out and update the QSI, so there's no problem on  
13 that.

14 MS. FRENCH: Okay.

15 MS. ARNOLD: And we also certify our -

16 MS. FRENCH: Okay. Well -

17 MS. ARNOLD: - assessors. We, we re-certify  
18 them every year.

19 MS. FRENCH: Okay.

20 MS. ARNOLD: We only have APD-certified  
21 assessors that complete the QSI. It's a  
22 controlled population of people for that very  
23 reason. That is so important to get it right for  
24 so many reasons. So -

25 MS. FRENCH: Okay.

1 MS. ARNOLD: - thank you for highlighting  
2 that. Appreciate it.

3 MS. FRENCH: Thank you very much.

4 MS. ARNOLD: Yes, ma'am.

5 MS. FRENCH: Okay. I'm done. Thank you very  
6 much.

7 MS. ARNOLD: Thank you. I appreciate it.

8 Okay. We're going to go on then to I think  
9 our final segment here.

10 Other variables we looked at, and then the  
11 other caveat is we don't recommend using them.  
12 And that was what we called a community safety  
13 factor and we looked at our ABC system and we  
14 looked at people who in the past had been in adult  
15 developmental disabilities defendant program, the  
16 name has changed, sorry about that. Juvenile  
17 defendant program, jail sentencing, jail post-  
18 sentencing, and prison. And while there was some  
19 predictive value there, we are very suspect on the  
20 validity of the data and do not feel like that's a  
21 valid collection of data, the manner in which we  
22 use it in the ABC system and don't recommend using  
23 it, and that's the reason why. And so we'd be  
24 interested in your suggestions on where we might  
25 could get at this in a different way.

1 I think the QSI gets at some of this because  
2 it's looking at the history of certain behaviors,  
3 but, you know, we need to use valid pieces of data  
4 and we don't have any way to validate this data.  
5 So at this time - in the future if we want to use  
6 it we'll have to figure out a way to get it a  
7 little bit more clean, but at this point we don't  
8 recommend using that.

9 The other ones that we used that we flagged  
10 that we do not recommend using because they did  
11 not show any additional predictive value was we  
12 flagged if people were in the community based care  
13 system, and it didn't show any predictive value,  
14 and we flagged people that were in the consumer  
15 directed Care Plus system at one of the  
16 stakeholder's request, and that also was not a  
17 predictor.

18 We looked at the mental - a mental health  
19 variable in the FIMA (ph) system. So we're  
20 looking at Medicaid data. And again this  
21 information hasn't been validated. Access to  
22 mental health services is, is pretty sporadic so  
23 using claims data from the FIMA (ph) system for  
24 that one did not seem to be a very good valid  
25 piece of data. So we do not recommend using that

1 and we do think that the factors in the QSI have  
2 picked up on the key pieces for that.

3 We looked at the disease management, if  
4 people had received services and were enrolled in  
5 disease management again in the FIMA system.  
6 There was no predictive value to that, so I think  
7 that probably is because the, the data we're  
8 capturing, I guess, is, is predicting enough of  
9 that that when you add that factor it doesn't add  
10 anything. We were kind of surprised at that one.  
11 We thought it might, but I, I think because we're  
12 using more QSI questions and some other things  
13 it's picking it up without this adding anything to  
14 it.

15 And then the nursing variable, independent  
16 variable, is a predictor and we do recommend a  
17 flag for that so if people are getting nursing  
18 that would be a flag in the algorithm.

19 So just in summary, we've tried to  
20 demonstrate how new information could be used  
21 including 126 independent variables based on your  
22 input and reliable data. We've used the '13-'14  
23 expenditure data, we have preliminary results that  
24 we could have an R-squared value of 0.79 as  
25 compared to our current one of 0.67 and this would

1 rank among the top statistical values for a waiver  
2 service for people in comparable states. So I  
3 think we made some good progress.

4 At this point, we want to see if you have  
5 questions, but I want to give you one final piece  
6 of information before we do that and what our next  
7 steps are, just so you have it in perspective.

8 We want to - we need to finalize our  
9 proposed models so you've given us some other  
10 things we'll look at. We have March 2<sup>nd</sup> scheduled  
11 for our last stakeholder meeting to present to you  
12 what we think the model should be. So we have  
13 some additional work to do based on your input  
14 today. And then we want to be able to run some  
15 case studies. You all asked us to do that and  
16 should kind of display the difference, so we are  
17 hoping that we can get at least some of that,  
18 those case studies done by the time March 2<sup>nd</sup>  
19 comes. I don't know how many we'll get done but  
20 we're going to do our very best to do a good job  
21 on that.

22 So with that, I think we want to see if  
23 there are questions on this last part that I just  
24 went over.

25 Yes, Suzanne?

1 MS. SEWELL: Suzanne Sewell. Suzanne Sewell,  
2 Florida ARF.

3 Do you have a listing available of the 126  
4 independent variables that we could look at -

5 MS. ARNOLD: Yes.

6 MS. SEWELL: - before March 2<sup>nd</sup>? That would  
7 be good to see that.

8 MS. ARNOLD: Yes, definitely.

9 MS. WRIGHT: Nancy Wright. So you indicated  
10 that for - I'm a little concerned about the '13-  
11 '14 year, and you indicated that you tried to  
12 remove some of the - you tried to cull out some,  
13 some of the people -

14 MS. ARNOLD: People. Mm-hmm.

15 MS. WRIGHT: - from, from the '13-'14 year.  
16 What, what was the result of that?

17 MS. ARNOLD: You mean how many people were  
18 culled out?

19 MS. WRIGHT: Well, did you cull out? I  
20 thought you said you culled out and then you  
21 decided to put back in again -

22 MS. ARNOLD: No, that's, that's the services.  
23 What we did on the '13-'14 expenditures is we only  
24 counted people who were enrolled as of January 1,  
25 2013, because they have to have sufficient



1 expenditure data for us to look at. Then we  
2 further looked at even with those people, they  
3 have to have an expenditure in every month.  
4 Otherwise, we're not going to have a good solid  
5 basis to, to try to predict the cost.

6 So that's what the dependent variable is.  
7 It's the '13-'14 year with all services in,  
8 geographic in, and only people who wouldn't have  
9 full claims data pulled out.

10 MS. WRIGHT: So I'm trying to remember the  
11 chronology of iBudget, and it still seems like  
12 that that year is going to include for at least  
13 part of the year a chunk of people who actually  
14 just got their algorithm; is that correct?

15 MS. ARNOLD: No, the - July 1 of 2013,  
16 everyone was in iBudget.

17 MS. WRIGHT: But some of those people were  
18 getting their algorithm amounts because, because  
19 they had not requested hearings, is that correct,  
20 for part of that year? So the '13-'14 goes from  
21 July 1<sup>st</sup>, 2013, to June 30<sup>th</sup>, 2014?

22 MS. ARNOLD: Yes.

23 MS. WRIGHT: So from July 1<sup>st</sup>, 2013, until -

24 MS. ARNOLD: People had -

25 MS. WRIGHT: - January 1<sup>st</sup>, 2014, people who

1 had not requested a hearing for any reduction of  
2 service -

3 MS. ARNOLD: Right.

4 MS. WRIGHT: - were getting either their  
5 algorithm or your sum of the service model, right?

6 MS. ARNOLD: Right, yes.

7 MS. WRIGHT: So you're including that.

8 Isn't that going to skew that - that were  
9 more than the algorithm?

10 MS. ARNOLD: They were people that were  
11 getting less than the algorithm if they did not  
12 indicate they needed the full algorithm amount.  
13 Those were the 14,000 that we then increased back  
14 in September.

15 MS. WRIGHT: Well, there's two - right, two  
16 things. So you didn't - the algorithm wasn't  
17 applied to people who had a cost plan that was  
18 less than algorithm, and then the second thing is  
19 that there were a group of people who got  
20 reductions who didn't request a hearing and  
21 therefore didn't have services continued.

22 MS. ARNOLD: That's correct, that is, in '13-  
23 '14 and the -

24 MS. WRIGHT: Okay. Can you pull those people  
25 out?

1 MS. ARNOLD: Okay. I, I don't know. I guess  
2 we could look at that.

3 MS. WRIGHT: Can you look at pulling those  
4 people out?

5 MS. ARNOLD: Sure.

6 MS. WRIGHT: 'Cause it - 'cause what you're  
7 doing then is you're -

8 MS. ARNOLD: Okay.

9 MS. WRIGHT: - comparing the algorithm to the  
10 algorithm, so that's going to make your test  
11 results a lot higher.

12 MS. ARNOLD: Okay. So let me see if I get  
13 this right. You want us to pull out of the '13-  
14 '14 people who had a reduction but did not request  
15 a hearing?

16 MS. WRIGHT: Right.

17 MS. ARNOLD: That's a lot of people.

18 MS. WRIGHT: Well, they were raised back in  
19 January, but there's half of the year that -

20 DR. TAO: But they didn't spend that when we  
21 gave it to them. We used the expenditure.

22 MS. WRIGHT: But they can't, they can't spend  
23 more than what they've been allocated.

24 DR. TAO: But they didn't even spend what we  
25 allocated.

1 MS. ARNOLD: So let me clarify what you're  
2 wanting. You're wanting the people who had a  
3 reduction from their tier amount -

4 MS. WRIGHT: Right.

5 MS. ARNOLD: - who, period. Is that who you  
6 want us to pull out?

7 MS. WRIGHT: No, who did not - the ones that  
8 had a reduction and asked for a hearing kept -

9 MS. ARNOLD: Right.

10 MS. WRIGHT: - their expenditures up -

11 MS. ARNOLD: Okay.

12 MS. WRIGHT: - at their cost plan.

13 MS. ARNOLD: Okay. So then I had it right.  
14 So they got a reduction and did not request a  
15 hearing, that's who you want?

16 MS. WRIGHT: Right. And if they didn't  
17 request a hearing then they accepted the  
18 reduction, so for those people many of them may  
19 have gotten their algorithm, I don't know, so what  
20 you're doing for those people is you're comparing  
21 the algorithm to the algorithm.

22 MS. ARNOLD: That's quite a few people.  
23 Isn't that the same as the 14,000 people?

24 MS. WRIGHT: No, no, I think that it's much  
25 less than that.

1 DR. NIU: It's 6,000.

2 MS. ARNOLD: It's 6,000?

3 MS. WRIGHT: Yeah.

4 MS. ARNOLD: Okay. So why wouldn't it be the  
5 same 14,000 that we moved up to the algorithm?

6 MS. WRIGHT: 'Cause the 14,000 - no, because  
7 the, those people got a cost plan. They -

8 MS. ARNOLD: Oh, right, 'cause they didn't  
9 get a reduction. Okay.

10 MS. WRIGHT: - didn't even get a reduction.  
11 Yeah.

12 MS. ARNOLD: Sorry, I got confused. Okay.

13 MS. WRIGHT: How could you get confused about  
14 this?

15 MS. ARNOLD: I have no idea. Okay. So I've  
16 got it now. Thank you.

17 David got a long time ago but it takes me a  
18 while.

19 Other questions?

20 MR. BARR: Any more questions?

21 MR. VINSON: Dave Vinson, the ARC of St.  
22 John's.

23 Just a follow-up on Nancy's question, and  
24 I'll just use point case here in using that set of  
25 data, Dr. Niu had mentioned during that year the

1 cost of transportation was approximately half it  
2 had been previous. He said it went from \$40  
3 million down to \$20 million.

4 DR. NIU: That's about the number, yeah.

5 MR. VINSON: So to kind of echo what Nancy is  
6 saying, that's point in case, you know, that's \$20  
7 million that probably for the most part since the  
8 iBudget amounts roughly for many people equal the  
9 transportation amounts, that would definitely skew  
10 the data, I believe.

11 MS. ARNOLD: What is your recommendation?

12 MR. VINSON: I, I think it might be a bad set  
13 of data to use.

14 MS. JACKSON: I think you need to reinstate  
15 the transportation.

16 MS. ARNOLD: What do you mean by "reinstate  
17 transportation"?

18 MS. JACKSON: People's transportation  
19 decreased, you know, because it wasn't a core  
20 service item. You had a number of people whose  
21 transportation, they didn't have money in their  
22 budget for transportation, although I'm going to  
23 say this, if you ask transportation wasn't cut,  
24 there was just no funding for it because it wasn't  
25 a core service. So at some point we need to

1 correct that and reinstate transportation so  
2 people have access to services, and -

3 MS. ARNOLD: Okay. So your recommendation is  
4 to reinstate transportation to the prior level  
5 that it was before iBudget went in?

6 MS. JACKSON: Right.

7 MS. ARNOLD: Okay.

8 MS. JACKSON: Well, you'd have to look at  
9 that, I know, 'cause there's probably some service  
10 differences but that would at least be a starting  
11 point.

12 MS. ARNOLD: Okay. Thank you.

13 MS. JACKSON: And Suzanne's figures show  
14 about what, 20,000 per 20-million?

15 MS. SEWELL: \$20 million.

16 MS. JACKSON: Yeah.

17 MS. ARNOLD: Thank you.

18 MS. FAMBRO-PRICE has one from the phone.

19 MS. FAMBRO-PRICE: We have one from Attorney  
20 Madden, Trisha Madden. She said QSI does not make  
21 clear variables between different family settings  
22 in current version. So how could you get any  
23 valid information on this present examination?

24 MS. ARNOLD: Thank you, Trisha. What we did  
25 on - in looking at the QSI addendum questions,

1 which do take into account the family situation  
2 and the caregiver circumstances, we did run a test  
3 on that with those that had that data which is  
4 somewhere around 3,000 people. And when we added  
5 that with all the other factors we've done, that  
6 we've already gone over and discussed today, it  
7 did not add any additional predictive value.

8 However, we want to continue to collect that  
9 data so we that we get the rest of the people to  
10 have that data and we may need to try that again  
11 at a future date, but at this point it looks as  
12 though the QSI questions that are now coming into  
13 play may be kind of overlapping with some of those  
14 questions.

15 Any other questions? Any other questions  
16 coming in from the phone?

17 Okay. All right. Well, we thank you very  
18 much for coming.

19 We'll see you on March 2<sup>nd</sup> and we have a lot  
20 of work to do in between now and then. So we'll  
21 be busy. Thank you.

22 \* \* \* \* \*

23 (Whereupon, the meeting was adjourned at  
24 4:00 p.m.

25



C E R T I F I C A T E

THE STATE OF FLORIDA, )


COUNTY OF WAKULLA, )

I, Suzette A. Bragg, Court Reporter and  
Notary Public, State of Florida at Large,

DO HEREBY CERTIFY that the above-entitled  
and numbered cause was heard as herein above set out;  
that I was authorized to and did transcribe the  
proceedings of said matter, and that the foregoing and  
annexed pages, numbered 1 through 88, inclusive,  
comprise a true and correct transcription of the  
proceedings in said cause.

I FURTHER CERTIFY that I am not related to  
or employed by any of the parties or their counsel, nor  
have I any financial interest in the outcome of this  
action.

IN WITNESS WHEREOF, I have hereunto  
subscribed my name and affixed my seal, this 19<sup>th</sup> day of  
May, 2015.

  
\_\_\_\_\_  
SUZETTE A. BRAGG, Notary Public  
State of Florida at Large  
My Commission Expires: 2/21/2017

