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## **QUALITY HEALTH STRATEGIES**

Moderator: Laura Benzel / Dr. Ian Stockwell June 10, 2014 1:56 pm CT

Operator:

Ladies and gentlemen, thank you for standing by. Welcome to the Disparities National Coordinating Center's Community of Practice Conference Call. During the presentation, all participants will be in a listen only mode. Afterwards we will conduct a question and answer session. At that time, if you have a question please press the one followed by the four on your telephone.

If at any time during the conference you need to reach an operator, please press start zero. As a reminder, this conference is being recorded Tuesday, June 10, 2014. I would now like to turn the conference over to Laura Benzel. Please go ahead, ma'am.

Laura Benzel:

Thank you, (Tia). Good afternoon. This is Laura Benzel with the Disparities NCC and welcome to our final tenth scope of work Community of Practice webinar. The title of today's webinar is Understanding Disparities Among Dual Eligibles with Mental Health Conditions.

Today's presentation, transcript, and audio will be posted on the Disparities NCC's Health Care Community's website, as well as the cmspulse.org website

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under the Resource Center tab. We would also appreciate you completing the

brief survey that will automatically populate at the end of the webinar.

And please note that we'll open the lines for questions and answers after

today's presentation, but we also invite you to use the chat room to submit

questions and comments. We are pleased to have as our guest speaker Ian

Stockwell, Director of Special Studies at The Hilltop Institute in Baltimore.

Dr. Stockwell will provide an overview of Hilltop's recent report that assesses

differences in chronic disease conditions among dual eligible Medicare and

Medicaid beneficiaries with a mental health diagnosis. During our webinar

today, as well as during our office hours on June 18th, Dr. Stockwell will

discuss his methods, including the use of the chronic condition data

warehouse so that you can replicate this work in your respective states.

I'm pleased to introduce Dr. Stockwell. Dr. Stockwell, we have passed you the

ball.

Ian Stockwell:

Great. Thanks, Laura. And hello, everyone, and just to touch on something

Laura had mentioned, I will be doing the office hours next week and this talk

is going to be very data heavy and the methods are fairly complex. So if you

have any questions, feel free to ask during the Q&A or at the office hours next

week or just get in touch with me directly or through the DNCC.

So this talk is built on a paper that is in the final stages of editing that focused

on dually eligible individuals and the prevalence of mental health conditions

and what else comes along with those mental health conditions. I've tried to

frame the talk today so that it's going to be most useful in duplicating these

methods in your own states with your own state's data.

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The Medicaid data that we used for this study is, you know, Maryland

specific, but the Medicare data is very similar to what other states would be

able to access through the CCW. So hopefully I do a good job of that, and I

really want to thank the Delmarva Foundation for sponsoring this work.

They have been excellent partners throughout the process, especially Maddie

Shea who provided a lot of great insight and proofreading, and just was very

helpful in the whole process. So we at The Hilltop Institute are interested in

the work of combining data sets, and in particular combining Medicare data

sources and Medicaid data sources for individuals who are eligible and

enrolled in both programs.

As everyone here on the call knows, these dually eligible individuals are often

quite expensive, often quite sick, and often can benefit most from coordinated

care programs and interventions, because of their very complex health needs.

And, you know, it's from that motivation that kind of prompted this paper and

this presentation, and again, you know, I'm going to try and present this

information in way that's most helpful in not only understanding what we

found in Maryland, but being able to do this again in another state.

So we focused on mental health for two main reasons. The first is the most

important by far and that's that individuals with mental health conditions are

known to have a very high occurrence of co-occurring chronic conditions and

the functional impairments that come with them.

Second and not on this slide is that we have a new capacity for identifying

those mental health conditions through the chronic condition algorithm that

CMS puts out, and I'll get into that a little bit in the presentation. But not only

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is it an important problem, but it's an important topic that we can now address

given the chronic condition guidance that CMS has put out.

We approached this issue of mental health conditions in two parts. The first

was very simply to figure out what has been done on this in the past. So we hit

the literature like any good graduate student does. We did a very thorough

literature review, including the search tools listed here and the search terms

also listed here.

So we were trying to find relevant work both published and in white paper

format that talked about dual eligibles, mental health conditions, co-

morbidities. We were able to find a lot of literature. It was very helpful in

letting us craft the data exploration that came afterwards, and this is, you

know, a best of, of what we found.

A lot of people have done a lot of work on chronic conditions. A lot of people

have done a lot of work on mental disorders. We also found that people with

mental health conditions are the most rapidly growing subgroup of SSDI

beneficiaries and that dual eligible with co-occurring mental and physical

health conditions have a high degree of care complexity and increased costs.

Good findings, findings that we kind of knew going into it, but it was really

the limitations that helped us focus on the data work that was going to come

next. Some of the limitations were that the combination of conditions were

limited, for example when individuals looked at mental health disorders, they

would focus on a specific mental health disorder, not the constellation of

mental health disorders.

Even defining what those disorders were or conditions were, was fairly

scattered. Individuals or researchers would use different definitions, some

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homegrown, some from, you know, HEDIS or another standard. But none that

we found used the CMS official definitions through the chronic condition

warehouse.

Also the further drill down of the results, the more limited in scope of the

study population. So these limitations really set the boundaries for the work

that we were going to do using the data that we have in-house. So I'm not

going to go through all of these research questions, but, you know, we had a

lot of specific questions that we wanted to get answers for out of the data.

But they were all about the broad question of mental health conditions in the

Medicare and Medicaid eligible populations. We were very lucky to have a

very deep and wide data set to work from, so we were able to come up with

these more specific research questions.

But in general we wanted to look at the individuals with mental health

conditions who were dually eligible in Maryland. So we focused on the

individuals in Maryland who became dually eligible in 2008. So we call them

the new dually eligible individuals.

So these individuals were found to have a first enrollment span in either

Medicaid or Medicare in 2008, and they also had an existing Medicare or

Medicaid span before that first span. In other words, an individual started their

Medicare eligibility in May of 2008, but had Medicare eligibility before that,

maybe starting in 2007.

And it's the order of that eligibility, in other words if someone was Medicaid

eligible before they gained Medicare eligible or vice versa that led to these

two classifications, Medicaid to Medicare, meaning they were Medicaid first

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and then became Medicare eligible, or Medicare to Medicaid, meaning they

were Medicare first and then became Medicaid eligible.

We have done work in the past breaking down these pathways, we call them

pathways to dual eligibility, and it is very clear that the types of individuals,

the demographic characteristics, the health characteristics are quite different

between these two. So we felt it necessary to break out our results between

these two populations.

The data sources we used were primarily focused on the Maryland Medicaid

Management Information System, which we have in-house. And we combined

that with the Chronic Conditions Warehouse research identifiable files from

CMS.

So the way that we get this Medicare data for our Medicaid individuals is we,

for a given year, calendar year, that the research identifiable file covers, we

send CMS a list of the individuals who we think are dually eligible for that

year. And CMS then sends us the list back saying whether they could confirm

each of those individuals that they were, in fact, dually eligible, being they

had a Medicare eligibility span or a Medicare claim.

And then we request the full data set for eligibility spans and claims for that

individual. A big note for this work is that we did not have Medicare part C,

Medicare Advantage, Medicare Plus Choice data, or part D pharmacy data for

this analysis. There's a long-running issue with having Medicare Advantage

plans submit their data for CCW use.

The part D data was just something that we had not requested for this analysis.

So those are two areas that we were missing data on. Because the process for

getting the Chronic Conditions Warehouse data from CMS really focuses on

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this back and forth between us and CMS on individual people who we think

are dually eligible, we have an individual identifier beneficiary ID that can

span both our Medicaid data sets and the Medicare CCW data that we end up

getting from CMS.

Now this is key. You know, if CMS had just sent us claims and eligibility

information for individuals who they thought were dual eligible without any

identifying information, we would not be able to link those claims to claims or

people on the Medicaid side.

You know, we could some, let's say, inpatient use on the Medicare side plus

inpatient use on the Medicaid side. But we couldn't parse out the different

claims and assign them to a unique person. So having that unique identifier

that spans both data sets really was the main thing that allowed us to do this

work.

We also have a few years' worth of archived data on both the Medicare and

Medicaid side. So I'll talk a little bit about assigning chronic conditions and

looking at costs, and those things were also only able to be done because we

have this archive of data that we can go back to, to look for specific diagnoses

or to summarize costs from claims for.

I have talked a little bit about, you know, the idea of using these chronic

condition algorithms from CMS to identify the mental health conditions that

we were looking for. That is a very complex process, but you can think about

it in two steps. So the first is using the archive of claims and on the Medicaid

side and counter information, and pulling out any claim or encounter that has

a diagnosis that's related to one of the CMS chronic conditions.

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Pretty straight forward. You look at a claim. You look for this specific list of

conditions. There are some criteria for specific conditions limiting what

diagnosis counts, in other words, can you look at just primary diagnosis? Can

you look at secondary tertiary? Or does it matter? And you simply pull all of

those claims and set them aside.

The next step is parsing all of those claims at an individual condition level and

comparing the utilization record for that person relevant to that condition to

the criteria set forth by CMS. In other words, if I pull a record for person A,

and that person had a claim that had a depression diagnosis on it, but they just

had one claim.

And that one claim was a carrier claim, so it was their primary care physician.

That doesn't necessarily mean that we flag them as depression, because the

depression criteria you have to have more claims than that with a depression

diagnosis. And they have to be in different spots, for example, in-patient or

out-patient or skilled nursing, et cetera.

So it's not as simple as just looking for diagnoses related to depression or

Alzheimer's or hypertension, but you have to pull those diagnoses and then

check to make sure that the frequency and type of those diagnoses match or

exceed the criteria laid forth by CMS.

And this is a list of all the chronic conditions we looked at. You'll see

highlighted in blue, the conditions that we identified as mental health

conditions. So individuals that met at least one of these condition criteria did

end up in our study cohort as being flagged as having a mental health

condition.

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We also flagged all of the other conditions and that assisted with our co-

morbidities and condition pair analysis that we did towards the end of the

paper. So once we've identified our people, and we've identified their

conditions, then it was, you know, the classic data summarization, data

exploration work that many people are good at and many tools can handle.

We can identify dollars that go towards a specific condition, because we have

individual-level claims and individual-level conditions. We can identify co-

morbidities, because we have conditions at the person level. And this is very

simple stuff. This is not fancy statistics, this is just summing and doing some

univariate analysis at a fairly entry level.

So now for the findings. Shown here is the demographic distribution of both

our total study cohort and the subset of our study cohort that had at least one

mental health condition. You'll see them broken out between the total study

cohort and the Medicaid first individuals, and the Medicare first individuals.

And what you'll see is the percentage in the total study cohort, male and

female, white or non-white, urban or rural, young versus old, and

comparatively the percentages that fell into each of those demographic

categories, and also had a mental health condition.

So you can see here that the ratio between men and women for individuals

with a mental health condition was about equal to individuals in the total

study cohort, although females were more represented of those individuals

that had a mental health condition. There was a higher proportion of white

individuals that had a mental health condition than in the overall study cohort.

There was a slightly higher proportion of rural individuals that had a mental

health condition. There was also a higher proportion of younger individuals,

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so individuals under the age of 65 that had a mental health condition. On the

bottom, the gold row, you see the total percentage of individuals in our study

cohort that had a mental health condition, a little over a third.

In other words, of the new dual eligible in Maryland in calendar year 2008 a

little over a third of them were found to have at least one mental health

condition. While that third of the study cohort was significantly different, so

this is a statistical term, significantly different, in all of these demographic

categories than the total study cohort, you can see that by and large,

individuals with a mental health condition were still demographically mixed.

And while significantly different than the overall study cohort, I would argue

that they weren't really that much different. Next we'll look at the breakdown

of the specific mental health conditions, also between the total study cohort

and the Medicaid first and Medicare first individuals.

You can see that by far the most prevalent mental health condition was

depression. That condition was found in about 25% of the total study cohort,

but found in 65% of the individuals who had at least one mental health

condition. So this was by far the most prevalent condition we found, followed

by bipolar and anxiety disorders, schizophrenia, and then the last three,

conduct, personality, and PTSD were fairly rare but still found in, you know, a

fair amount of individuals.

Just for clarification, the way that you can read this chart the N is the total

number of individuals, percent all is the percentage of the total study cohort

that N represents, and percent mental health is the percent of the total

individuals with at least one mental health condition that N represents.

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Next we'll talk about the cost associated with these individuals. The first thing

that you'll probably notice is that the Medicaid first individuals have dollars in

a lot more categories than the Medicare first individuals do. This is simply

because Medicaid offers a larger basket of services than Medicare does.

So for those individuals who are Medicaid first, so we're looking at their

Medicaid costs, these are costs before they became dually eligible, we're

finding dollars in things like home health services and pharmacy, and

capitated payments to managed care organizations that either weren't covered

or we didn't have data for the individuals for whom we were looking at their

Medicare claims records for.

You can see here that regardless of payer, individuals with any mental health

condition were more expensive than individuals without a mental health

condition. This was significant in both cases, but extremely large for the

Medicare first individuals, where an individual with at least one mental health

condition is almost twice as expensive as an individual with no mental health

conditions.

This is not to say that the mental health conditions are causing, this is not a

causal relationship. I'm not saying that the mental health condition is causing

those individuals to be significantly more expensive. This is a simple

summary of the data. It is quite likely that due to the high occurrence of co-

morbidities for individuals with a mental health condition, that could be

driving the costs.

It could be ancillary care or somatic care related to the mental health

condition, et cetera. But the numbers speak for themselves. But again, we did

not do a causal analysis. You can see that on the Medicare side, the type of

service that accounted for the majority of the difference in cost between the

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non-mental health and mental health populations was in-patient care, and that

was followed by nursing facility care.

So both of these categories were about twice as high for individuals with at

least one mental health condition as those without. On the Medicaid side,

pharmacy costs were about twice as high for individuals with a mental health

condition. And the nursing facility costs, as with the Medicare claims, were

also significantly higher. And you'll see the cost difference is highlighted blue.

So now we'll talk about the co-occurring conditions for individuals with a

mental health condition. When I had mentioned and talked a little bit about the

Chronic Conditions Warehouse algorithms that we used, I had mentioned that

we flagged all of the conditions that we had algorithms for, because we

figured why not, right?

It can only serve more explanatory - give us more explanatory power, and we

have those definitions now from CMS. So we did. And what we found was by

far the most commonly occurring condition for individuals with a mental

health condition was hypertension. This happened on both the Medicaid first

individuals, who tend to be the younger, poorer individuals, as well as the

Medicare first individuals, who by and large are older.

You'll see that on the Medicaid first side, about 35% of individuals with a

mental health condition also had hypertension. On the Medicare first side,

over 80% of individuals with a mental health condition also had hypertension.

From there the co-occurring conditions get a little bit different.

Tobacco use and diabetes, arthritis, on the Medicaid side, anemia,

Alzheimer's, and some heart issues and blood issues on the Medicare first

side. You'll also notice that, in general, individuals who were Medicare first

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were much more likely to have a co-occurring condition, as well as a mental

health condition.

This chart builds on the prior chart and talks instead about these condition

pairs. So what we did was, for a given individual, identified all of their

conditions, and then the unique pairs of those conditions, and looked at the

frequency of those unique pairs across each the Medicare and Medicaid first

populations.

So this gives you a sense of pairs of conditions that don't necessarily have a

mental health condition as one of the conditions, but they are all occurring in

individuals with at least one mental health condition. The most frequent

condition pair on the Medicaid side was the combination of depression and

hypertension. The most prevalent condition pair on the Medicare side was

anemia and hypertension.

And you can see the rest up there. This was fairly interesting, because you get

to see the number of individuals with this specific pair. So for example, there

were 15,030 individuals on the Medicare first side that had both anemia and

hypertension, and a mental health diagnosis. And this was out of about 7,000

individuals total in the cohort. So a very high number of prevalence of this

specific pair of conditions.

So what did we find? We found that a lot of individuals in this dually eligible

cohort have a mental health condition, and by far the most common condition

was depression. While those individuals with at least one mental health

condition were statistically significantly different in demographic

characteristics than the general population, they weren't that different.

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In other words, yes, they were statistically different, but that was really due to

the high number of individuals we were able to include in this study, and there

were still very large proportions of every demographic characteristic that we

measured in the mental health condition cohort.

We also found that individuals with mental health conditions were more

expensive. Again, this is not necessarily a causal relationship, but you can see,

you know, some reflection of potentially the mental health condition in some

of those cost factors. For example, in patient care being more expensive, for

example, on the Medicaid side, pharmacy care being more expensive.

Then we thought about your role, and how these findings could affect you.

And we really narrowed down on two things that we at Hilltop hope that you

guys, the QIOs, can take away from this study. The first is that although

people with mental health conditions may be statistically significantly

different in demographic characteristics, they really are representative of

everyone.

There are individuals of every race who we found with a mental health

condition. There are plenty of rural and plenty of urban dwellers. There are

people all across the age spectrum. And the mental health conditions that we

reviewed in this study weren't just relegated to one type of person. They really

were found across all types of demographic groups.

We also found that because the individuals with mental health conditions were

more costly, this suggested that care coordination could help them many

ways. It could bring down costs. We were not able on the Medicare side to do

a lot of provider-level analysis, but on the Medicaid side it was clear that there

were both mental health care professionals and somatic care professionals

providing care to these individuals.

It is quite likely, especially at this time, that there was not a lot of care

coordination between those two types of professionals. That could certainly be

an area to explore as an opportunity for care coordination. That's it for me.

This is a little bit about Hilltop for those of you who don't know about us. And

that's how to get ahold of me if you have any questions.

I am certainly happy to take questions now. I know this is probably very

difficult to follow. The paper will be out soon, so hopefully that will provide

some clarity, and if you have questions, I'd be happy to take them.

Laura Benzel: Thank you, Dr. Stockwell. (Tia), if you could explain to folks how they can

queue up for Q&A, I'd appreciate it.

Operator: Certainly. Ladies and gentlemen, if you would like to register a question,

please press the one followed by the four on your telephone. You will hear a

three-toned prompt to acknowledge your request. If your question has been

answered, and you would like to withdraw your registration, please press the

one followed by the three.

If you are using a speakerphone, please lift your handset before entering your

request. One moment, please, for the first question.

Laura Benzel: While we're waiting for folks to call in, Dr. Stockwell, we do have one

question in our chat room. And the question is from (Andrea) and she would

like to know why were substance use disorders not included in your definition

of mental health disorders and top diagnosis?

Ian Stockwell: Excellent question. That was simply because on the chronic conditions

algorithms from CMS we did not have a substance use category. I believe on

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the next update of the Chronic Conditions Warehouse algorithm substance use

is in there. But that is, unfortunately, not out yet.

Laura Benzel:

Thank you. (Tia), do we have any...

((Crosstalk))

Laura Benzel:

I'm sorry. Go ahead.

Operator:

That's okay. We have a question from the line of (Meredith Cobb). Please

proceed with your question.

(Meredith Cobb): Hi and thank you so much for your presentation. There was some very

insightful information included. I'm curious if there was any portion of your

study that would indicate that access or lack of access to mental health

services would impact the severity of the mental health condition, and,

therefore, the cost of treating those patients?

Ian Stockwell:

Excellent question. That is certainly one that we would like to look at in the

future. Unfortunately, it was beyond the scope of the study and the work that

we had done under this contract. But it is certainly, while it's not easily done

with the data that we have, it could be done in a couple ways.

The first would be, so we have addresses for each of these individuals, and we

have addresses for the providers. One way we could go about that in the future

is doing like a provider scarcity measure. In other words, are people who don't

have a mental health provider within, you know, 20 minutes of their

residence, do they tend to be worse off than those who do or not?

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You know, that's one approach that we could take, and that is doable in the

data. But remember that the data that we have is purely administrational, so

we don't have a lot of those qualitative measures or survey responses that

could do a better job of answering that question than just geographic location.

(Meredith Cobb): Thank you.

Ian Stockwell:

Sure.

Operator:

And ladies and gentlemen, as a reminder, to register for a question, please

press the one and then the four.

Laura Benzel:

Dr. Stockwell, we have actually a question here in the DNCC, so we're going

to ask you that question now.

(Shanza):

Hi, Ian, this is (Shanza). We worked together a little earlier...

Ian Stockwell:

Hi, (Shanza).

(Shanza):

How are you?

Ian Stockwell:

All right.

(Shanza):

Good. I just had a quick question followup with the measures that you used to

do your exploratory analysis. Did you use chi-squared or nova, which

particular statistical method did you use?

Ian Stockwell:

Well, we used chi-squared to figure out if the findings were between the

general cohort and the mental health cohort were statistically significantly

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different. But, you know, by and large, what findings came out of the study

were just simple tabulations and counts.

(Shanza):

Okay.

Ian Stockwell:

You know, the chi-squared was really only used to see if those mental health

individuals were statistically different than the general cohort.

(Shanza):

Okay.

Ian Stockwell:

What I would love to do, you know, tack on to this type of work, would be some more sophisticated statistical methods. There is a lot of data that we have that we and others and CMS has on these individuals, and it's certainly

right for analyses that can address the causality question.

In other words, you know, we could do a multivariate regression analysis to

figure out the weight to which each condition affects cost. In other words, you

know, and (Shanza) we saw this a lot when we talked about depression.

Individuals with depression are a lot more expensive than individuals without.

(Shanza):

Yes.

Ian Stockwell:

Is that because of the depression, or is it because of another common cooccurring condition that happens to occur in individuals with depression, or is it something that the depression is a symptom of? In other words, there's a higher rate of cancers or heart diseases that makes people depressed, but they

would have been more expensive even without that depression.

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So that type of question can only be answered with more sophisticated

methods that certainly the expertise exists and the data, but, unfortunately, it

was outside the scope of this project.

Laura Benzel:

(Tia), do we have any folks in the queue to ask questions?

Operator:

There are no further questions at this time.

Laura Benzel:

We have more from the chat room. Dr. Stockwell, how did you analyze the

cost associated with each mental health condition?

Ian Stockwell:

Well, that was actually fairly straight-forward. So when we assigned chronic

conditions, we did so at an individual level. So, for example, if I, Ian, was in

the data, and I had met the criteria for having depression, and I had met the

criteria for having hypertension. Then I would show up as having depression

and hypertension.

And when I pulled all of the claims and all of the payments associated with

those claims for me, I could see that those claims were for a person with

depression and with hypertension. So it was simply a summarization after

that. In other words, we have claims at an individual level and we assigned

conditions at an individual level.

So we had both pieces of information that we needed to do that math. I'm not

sure if that answered the question. Hopefully, it did.

Laura Benzel: Thank you. So, (Tia), we will ask one more time if there are any folks queued

up to ask any question?

Operator:

No, there are not.

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Laura Benzel:

Great. Well, thank you, everyone. We just have a few final announcements.

The first is that Dr. Stockwell will be joining us for office hours on June the

18th from 2:30 to 3:30. Please note the change in the time, usually we have it

2:00 to 3:00, but due to the availability of the webinar technology, we had to

change it to 2:30.

So it's June 18th, 2:30 to 3:30. It's the same dial-in number and password. And

also, CMS Pulse will continue to live, so if you want to send us anything to

put up on Pulse, we'll be glad to do that. We believe it will be maintained in

the eleventh scope of work, so we'd like to continue to populate it with all the

success stories of the QIOs.

And we thank you all very much for joining us, and if you could please fill out

the evaluation at the end of the webinar today we would appreciate it. Thank

you very much.

Operator:

Ladies and gentlemen, that does conclude the conference call for today. We

thank you for your participation and ask that you please disconnect your line.

**END**