

Task Order 002

Affordable Care Act Pretesting

American Community Survey Cognitive Testing

Final Report

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Prepared For

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I. Executive Summary

Introduction: In March 2010, the Affordable Care Act (ACA) was passed, ushering in a series of reforms of the U.S. health care system to be implemented over the course of four years. These reforms involve expanding public coverage (Medicaid) and targeting particular populations, such as young adults, as well as reducing health coverage disparities for racial and ethnic minorities. One of the most significant components of the ACA is that in 2014 there will be fully implemented “Health Insurance Exchanges” in each state. These are joint federal-state partnerships (or, in some states, just federal government programs) designed to create a marketplace of health insurance options for individuals and small businesses or State established exchanges that are designed within the guidelines of the ACA. The CBO estimates that 81% of participants in an Exchange will receive a government subsidy to lower the cost of their premium.¹ These Exchanges and products therein are still in development and states have broad flexibility in designing their programs.

These reforms will present challenges for measuring the many different sources of health insurance coverage. The U.S. Census Bureau recognized that there was a need to explore the terms and concepts that various targeted groups use to refer to these new avenues for obtaining coverage. These data will be crucial for assessing the effects of the exchanges on overall coverage.

Census partnered with Research Support Services, Inc. and its subcontractor, the Center for Survey Research at UMass Boston, to study the issue. The state of Massachusetts was the ideal, and only, venue for exploratory research, having passed a law in 2006 that includes most of the features of the ACA, including an Exchange. Findings from this research were intended to guide the design of questions that measure health insurance in the Census Bureau’s demographic surveys, specifically the Current Population Survey and the American Community Survey. This report focuses on the testing conducted for the American Community Survey.

In addition to testing a new ACS question on health insurance coverage, this test included language proficiency questions for Spanish language participants. This contributes to the Census Bureau’s examination of language barriers in accessing health coverage.

Time Constraints: Collaboration between the RSS/CSR and Census teams began in the fall of 2011 with the detailed exploration of the implications of the Affordable Care Act nationwide, identifying exchange concepts and terms including premium subsidies. This research included consultation with experts in ACA and Massachusetts coverage issues, four focus groups, and

¹ <http://www.kff.org/healthreform/upload/8147.pdf> accessed 11/15/2012

four iterative rounds of testing for the CPS. In July 2012, after the outcome of the Supreme Court decision on the ACA, it was decided to add the ACS project as a piggyback to this effort. It was agreed that the current coverage question, question 16, would be cognitively tested and an additional question would be added and tested to determine if the respondent paid a subsidized premium. This portion of the project began in mid August 2012. Because the final question wording had to be submitted by mid October, it was only feasible to accommodate two rounds of testing with 60 interviews in total.

Methodology: The RSS-CSR developed the initial cognitive protocol based on bulleted notes provided by the ACS census team. The initial questions and translations were also provided by the census team. Two questions were tested, 16 & 17, as well an abbreviated version of the ACS questionnaire in order to test the coverage questions in context. Protocol development, as well as testing, was conducted in parallel in English and Spanish. After the questionnaire was administered, retrospective probing followed first about the respondent then about other household members. The cognitive testing protocol was developed to assure that questions were tested thoroughly, and that respondents were probed consistently across interviewers.

After the first round of cognitive interviews, the project team decided to split question 17 into two parts, as discussed later under Analysis and Findings.

Recruiting: ACS recruiting was designed to minimize new recruiting efforts while maximizing the quality of respondents chosen to participate. The ACS was able to piggyback on the concurrent CPS project and thus could access the most useful potential respondents by recruiting in large part from those who called in to be screened after receiving the Health Connector mailings for participation in the CPS study.

For the ACS project recruiting, we were able to contact the respondents who called in from the Health Connector mailings but who were not interviewed in the four CPS rounds of testing. These potential respondents were re-screened to make sure that they still had the same type of coverage that made them eligible for CPS testing. The remaining Spanish recruits and the English MassHealth recruits were identified using traditional recruiting methods.

Participant Characteristics: There were two rounds of testing and a total of 60 cognitive interviews. Because of the difficulty in recruiting Spanish monolingual Commonwealth Care Premium respondents, and the lack of any Spanish monolingual Commonwealth Choice participants, it was decided at the start of the rounds to conduct 35 English interviews and 25 in Spanish. Among Spanish language respondents, during the interview 20 reported speaking English not well or not at all. All Spanish respondents reported speaking English Not Well or Not at all in screening.

Marital status and the presence of children in the household were also tracked. Half of the

respondents reported being not married with no children under 18 living in their household. One-third of respondents reported being married and 30% reported having children under the age of 18 living in their household. Respondents reported a variety of races, age and education.

Findings and Analysis

The first question on coverage, ACS question 16 is currently in use in the American Community Survey. In both rounds, therefore, the question was asked without changes. The purpose of testing it in this study was to see how it worked in a state where Health Reform has already been implemented, and in particular, where exchange programs are in operation. Because the question was tested without changes across rounds, the findings from both rounds are discussed together.

A number of basic concepts were probed on, to make sure respondents understand them as intended. The concept of 'health insurance or health coverage plans' was well understood across languages. The concept of 'current' coverage was also universally well understood and interpreted as intended.

Exchange-covered respondents did not find a response choice that directly referred to the exchange. Those who purchase a private plan through the Exchange (Commonwealth Choice participants), tended to answer Direct Purchase or Other and specify the plan name. There were a variety of responses for those who have Commonwealth Care (exchange plan fully or partially subsidized). Those who pay a premium tended to answer Direct Purchase, while those with full subsidy tended to choose Medicaid. Among those respondents who answered Yes to Other in round 1, the largest group (n=9) indicated they chose it because they did not feel their coverage fit anywhere else. In round 2 only three respondents who answered Direct Purchase selected Other..

Among those saying Yes to multiple answers, there appeared to be confusion as to what coverage they have, mostly stemming from lack of knowledge or clarity, and not because of issues interpreting the question. For instance, some respondents who were uncertain if their coverage was Medicare or Medicaid chose both. The definition of Medicaid offered to them appeared to help some of the Commonwealth Care and some of the MassHealth respondents answer Yes, as the mention of low income suggested this fit their situation. In addition, some respondents answered Yes to Other as well as another category as a way to write in more specifically what they had marked above.

Alternative wording was tested for question 16b: "Purchased directly" [comprado directamente, for Spanish] without mention of insurance company. There was no strong evidence suggesting this change would offer a better alternative.

The second question tested was question 17. In each round, two versions were tested. In Round 1, the two questions were: "Is the cost of your health insurance reduced based on your family income?" (Version A) and "Is the cost of the health insurance premium reduced based on your family income?" (Version B).

These questions were problematic for respondents who pay no premium or out of pocket expenses at all. The question asks about a cost they do not incur. For those who pay no premium but do pay out of pocket expenses, Version B was more problematic than Version A. Also, when probed in Version B, most respondents showed they understood the term 'premium', but not everyone did.

The concept of 'is reduced' presented a number of problems. First, it was interpreted differently by different respondents. While some thought it meant that the cost had already been reduced and they were paying a smaller amount, others interpreted the phrase as a hypothetical 'would it be reduced' should their income change. Some respondents simply did not know the answer, despite interpreting the question as intended, that is, they did not know if the amount they were paying was or was not based on their income. There was also lack of consistent interpretation as to what the cost was reduced from.

What about accurate responses based on the respondent's reality? Most of those who pay no premium answered Yes, but the ones who do pay answered Yes and No in similar numbers.

Based on the ACS team's decisions after considering the round 1 findings, in round 2, question 17 became a two-part question, first filtering out those respondents who do not pay a monthly premium. First, question 17a asked:

Is there a monthly premium for this plan? *A monthly premium is a fixed amount of money people pay each month to have health coverage. It does not include copays or other expenses such as prescription costs.*

Two versions of 17b were tested for those who answered Yes at 17a:

Version C: Is the cost of the premium reduced based on family income?

Version D: Is the cost of the premium subsidized based on family income?

Question 17a proved to be a welcome addition. It worked as intended: respondents who pay a premium answered Yes, and no false positives were detected. This was true in both languages. The soft edit (READ IF NECESSARY) in the interviewer-administered modes proved to be necessary and useful for some respondents.

For 17b, in Version C the term 'reduced' presented problems for respondents whose premium had recently gone up (due to the recent beginning of the new plan year for exchange programs, this had happened for most respondents within the last quarter). It also presented problems in Spanish as the translation asks about the premium **having been** reduced, rather than paying a **reduced premium**. Some respondents think 'reduced' means that the premium is lower, not that someone else pays part of it. Findings similar to those in round 1 were also seen in this round with the term 'reduced.'

In Version D, 'subsidized' was not clear to all. To one respondent, the question is asking people if they agree to pay a monthly payment for their coverage. Others who understood the term and whose coverage is actually subsidized, did not feel their coverage is subsidized because they pay a premium and do not know of anyone else paying part of it. Additionally, in one case at least it was received as a term with negative connotations ("handout").

In addition to looking at each question individually, it is important to consider the coverage questions in tandem and the extent to which appropriate coverage coding rules can be determined when all available data is taken together.

Recommendations and Conclusions

Question 16 is in use currently by ACS and therefore will remain as is, unchanged, despite findings from testing. However, since this is the first time the question has been tested with respondents with exchange coverage, we recommend on the basis of our findings and for future testing that Census look into the possibility of adding one or more response choices that may be more appropriate to exchange-covered individuals. Until more is known about how different states will publicize or name their exchanges, this should be tabled.

For question 17, given the impossibility of further testing before making a decision for a version to field in ACS, we recommended two possibilities in advance of the final meeting: 1) Is your premium reduced or subsidized based on family income?, and 2) Is your premium subsidized based on family income? To this version a definition would be included for subsidized. Several definitions were discussed but there was no consensus. Thus, we recommend census continue to consider the possibility of adding and testing one in the future.

For the future, new questions may need to be designed or current ones revised as states start giving tax credits. As that happens, the constructs behind the questions that will need to be asked may not correspond to anything that will be known by many respondents, as it will happen "behind the scenes."

This study accomplished its goals: to test the ACS question 16 in Massachusetts with a varied population primarily consisting of individuals who have coverage through the state Exchange and to test a new question about subsidies with the same population. Across two rounds of cognitive testing, the new question was refined to better capture the realities of exchange

coverage, while still adequately capturing the realities of any other type of coverage. It also helped to throw additional light on language access issues in obtaining coverage through the State programs.

The questions worked well with the limited number of non-exchange covered respondents, thereby suggesting no new error was introduced with these questions.

As the 2014 national rollout of the ACA in all states approaches, further research should test the questions in states with different models of exchange programs as they begin operating.

II. Introduction

In March 2010, the Affordable Care Act (ACA) was passed, ushering in a series of reforms of the U.S. health care system to be implemented over the course of four years. These reforms involve expanding public coverage (Medicaid) and targeting particular populations, such as young adults, as well as reducing health coverage disparities for racial and ethnic minorities. One of the most significant components of the ACA is that in 2014 there will be fully implemented “Health Insurance Exchanges” in each state. These are joint federal-state partnerships (or, in some states, just federal government programs) designed to create a marketplace of health insurance options for individuals and small businesses or State established exchanges that are designed within the guidelines of the ACA. The CBO estimates that 81% of participants in an Exchange will receive a government subsidy to lower the cost of their premium.² These Exchanges and products therein are still in development and states have broad flexibility in designing their programs.

These reforms will present challenges for measuring the many different sources of health insurance coverage. For example, do Exchange participants report having their coverage through the government, directly purchased or something else? Exchange participation will be a way to access some conventional sources, possibly including sources such as individually purchased coverage, means-tested coverage, and coverage offered through employers who participate in the Small Business Health Option Program (SHOP).

The U.S. Census Bureau recognized that there was a need to explore the terms and concepts that various targeted groups use to refer to these new avenues for obtaining coverage. These data will be crucial for assessing the effects of the exchanges on overall coverage. Census partnered with Research Support Services, Inc. and its subcontractor, the Center for Survey Research at UMass Boston, to study the issue. The state of Massachusetts was the ideal, and only, venue for exploratory research, having passed a law in 2006 that includes most of the features of the ACA, including an Exchange. Residents in Massachusetts have experience in interacting with several of the new vehicles of coverage, and are thus a rich source of information and can provide insight into how respondents may answer standardized questions about coverage.

Findings from this research were intended to guide the design of questions that measure health insurance in the Census Bureau’s demographic surveys, specifically the Current Population Survey and the American Community Survey. This report focuses on the testing conducted for the American Community Survey.

² <http://www.kff.org/healthreform/upload/8147.pdf> accessed 11/15/2012

In addition to testing a new ACS question on coverage, this included language proficiency questions for Spanish language participants. This contributes to the Census Bureau's examination of language barriers in accessing health coverage.

Time Constraints

Collaboration between the RSS/CSR and Census teams began in the fall of 2011 with the detailed exploration of the implications of the Affordable Care Act nationwide, identifying exchange concepts and terms including premium subsidies. This research included consultation with experts in ACA and Massachusetts coverage issues, four focus groups, and four iterative rounds of testing for the CPS. In July 2012, after the outcome of the Supreme Court decision on the ACA, it was decided to add the ACS project as a piggyback to this effort. It was agreed that the current coverage question, question 16, would be cognitively tested and an additional question would be added and tested to determine if the respondent paid a subsidized premium. This portion of the project began in mid August 2012. Because the final question wording had to be submitted by mid October, it was only feasible to accommodate two rounds of testing. Though there were only two rounds of testing, the strong working relationship of the team established during testing for CPS and a tightly controlled schedule which required unusually fast turnaround times on the part of both the RSS/CSR and the census teams enabled the successful completion of sixty cognitive interviews in just over two months.

Methodology

The RSS-CSR team took the lead in developing the initial cognitive protocol based on bulleted notes provided by the ACS census team. The initial questions and translations were also provided by the census team and included the two questions to be tested, 16 & 17, as well an abbreviated ACS version of the questionnaire that provided context for the coverage questions. Every effort was made to ensure that the protocol would elicit the information on questionnaire items that was necessary for thoroughly assessing how the two items were performing and if the coverage type could be accurately identified in a production ACS format. Protocol development, as well as testing, was conducted in parallel in English and Spanish.

The interview protocol included an introduction where the respondent learned about the purpose of the study, what was expected of him/her in this type of interview, and a consent administration step. The respondent then completed the ACS questionnaire either as a self-administered questionnaire or in a CATI or CAPI simulation. Respondents were asked to complete the ACS for three household members, however, if they were unable to complete the questionnaire within thirty minutes, interviewers stopped the interview once the respondent had completed the test questions for him or herself. After the questionnaire was administered, retrospective probing followed first about the respondent then about other household members.

In developing the protocols, the team kept in mind that the purpose of the testing was to elicit information on interpretation patterns and to make sure the questions were asking what was intended. The team also worked to make sure that the protocols were clear and understandable in both languages, that respondents were able to answer them, and that they did not yield false positives or false negatives. The cognitive testing protocol was developed to assure that questions were tested thoroughly, and that respondents were probed consistently across interviewers.

Cognitive testing for the ACS questionnaire took place over two rounds. Each round consisted of 30 interviews each for a total of 60 cognitive interviews. English and Spanish language protocol development and testing occurred concurrently in each round just as in the CPS cognitive testing rounds. Each round lasted a little over a week with interview summaries submitted as they were completed after each interview. In order to accommodate the compressed schedule, less than a week was available between the final summary submissions in round 1 and the review, analysis, and initial recommendations for changes for round 2. The following table shows the distribution of coverage type per language in each round of testing.

Round 1	English	Spanish
Commonwealth Choice	9	0
Commonwealth Care Premium	6	7
Mass Health	3	4
ESI	0	1

Round 2	English	Spanish
Commonwealth Choice	6	0
Commonwealth Care Premium	6	6
Mass Health	5	7

After the first round of cognitive interviews, a meeting of the entire team was held to discuss the findings. The meeting focused on review of the protocol to assess what worked well, what portions of the questionnaire needed new question wording, and if there was need for additional areas of probing. It was decided after the first round to split the new question, question 17, into two subparts as discussed later in analysis. Translation of the new question 17 into Spanish was a collaborative effort between RSS and the Census team.

In translating the protocol into Spanish, we always aimed to produce instruments that maintained equivalence of measurement across languages in order to achieve a functionally equivalent and culturally appropriate version of the original instruments. We also prioritized producing a translated version that worked equally well for people speaking different national varieties or dialects of Spanish and different educational levels. Translations were carried out under the supervision of Alisú Schoua-Glusberg, an expert in instrument translation into Spanish for health research. She worked closely with Census linguist, Jenny Leeman.

Because all cognitive interviewers had already conducted four rounds of CPS interviews, they were familiar with the goals and needs of the ACS project. Training of the interviewers was conducted by teleconference with interviewers from RSS and CSR together, for Round 1. Alisu Schoua-Glusberg and Carol Cosenza trained each of their teams separately for Round 2.

Recruiting

ACS recruiting was designed to minimize new recruiting efforts while maximizing the quality of respondents chosen to participate. Because the ACS was able to piggyback on the concurrent CPS project, the team was able to access the most useful potential respondents by recruiting in large part from those who called in to be screened after receiving the Health Connector mailings for participation in the CPS study. In this way, the ACS project was able to save resources and cut down on recruiting time for 60 interviews in a compressed schedule. Like the CPS study, ACS required participants that had used the Exchange in order to properly test its questions. Prior to the start of any recruiting for the CPS study, it was agreed that the best source of information for Exchange participants was the Health Connector itself. The experts we consulted universally agreed that many Exchange participants do not realize they get their insurance through the Exchange nor do they even know what kind of insurance they have. Using the Health Connector rolls for the CPS study recruiting allowed us to select specific respondents with absolute assurance that we knew their health coverage type rather than rely solely on the reports of the individual respondent, and ensured that we were including appropriate candidates.

In May 2012, as part of the recruiting effort for the CPS project, the Massachusetts Health Connector mailed approximately 2,000 letters to Commonwealth Care Premium members and 4,000 letters to Commonwealth Choice members. The Health Connector does not keep track of language skills or preferences of the individuals they cover; therefore, mailing areas were selected to include every Connector household in heavily Hispanic areas in the state. Letters went out with English on one side and Spanish on the other directing potential participants to call an 800 number to be screened for inclusion in the study. The English response was high, with over 125 Commonwealth Care Premium and nearly 300 Commonwealth Choice members calling to be screened. While response from English speakers was more than sufficient, very low numbers of Spanish speakers called in for screening.

The lack of Commonwealth Choice Spanish monolingual participants was disappointing but not surprising since previous efforts to recruit this population had resulted in just one Spanish-speaking bilingual participant. Individuals covered through Commonwealth Choice have a higher level of income, which among Spanish-speaking immigrants in Massachusetts is typically associated with bilingual language skills. This suggests to us, in the face of the evidence from the mailing response, that this population, if it exists at all, is extremely small. Likewise, Commonwealth Care Premium respondents also meet minimum income standards and thus again, monolinguals are likely to be a small percent of the overall immigrant community that

would qualify for this type of coverage. The earnings opportunities for Spanish monolinguals are limited.

Because of the low response rate to the Spanish Health Connector mailings, there were only two Commonwealth Care Premium Spanish monolinguals available for inclusion from the mailing effort. All English Commonwealth Choice and Commonwealth Care Premium respondents were recruited through the Connector mailings.

For the ACS project recruiting, we were able to contact the respondents who called in from the Health Connector mailings but who were not interviewed in the four CPS rounds of testing. These potential respondents were re-screened to make sure that they still had the same type of coverage that made them eligible for CPS testing. The remaining Spanish recruits and English MassHealth recruits were identified using traditional recruiting methods. These methods included the distribution of flyers in both English and Spanish and for English participants the use of Craigslist.com. We also worked with community organizations, particularly those serving the Spanish language community. Contacts with the YWCA of Greater Lawrence and attending community events and festivals where contact with community leaders could be made were fruitful in recruiting some respondents. Most helpful for Spanish monolingual recruitment was the enthusiastic assistance of Spanish Helpline Counselor at Health Care for All, Carlos Solís, who was critical to the successful recruiting of respondents with Commonwealth Care Premium coverage for both rounds of ACS. As with the Health Connector, Mr. Solís was able to confirm coverage type so even for respondents who were unsure of their type of coverage, premium, or subsidy, we were able to distinguish their coverage type based on their recruitment source.

Participant Characteristics

There were two rounds of testing and a total of 60 cognitive interviews. Because of the difficulty in recruiting Spanish monolingual Commonwealth Care Premium respondents, and the lack of any Spanish monolingual Commonwealth Choice participants, it was decided at the start of the rounds to conduct more ten more English interviews than Spanish so a total of 35 English and 25 Spanish interviews were conducted.

Aiming for demographic and geographic diversity among respondents was a component of recruitment. However, due to the challenges in identifying respondents that met coverage requirements it was not always possible to select a diverse range of respondents, especially for Spanish monolinguals which were all recruited from the limited urban areas where larger Hispanic populations live.

Among Spanish language respondents, most reported speaking English not well during the interview. All Spanish respondents reported speaking English Not Well or Not at all in screening. The difference in reporting between the telephone screener and the in-person

cognitive interview for respondents who later reported they could speak English ‘well’ was not clearly identified, however, it could be attributed to the comfort level of the respondents in the in-person setting. Nothing in the recruiting process would have suggested to respondents that they needed to be monolinguals to qualify.

Spanish	25
English - Very well	0
English - Well	5
English - Not well	14
English - Not at all	6

Marital status and the presence of children in the household was also tracked. Half of the respondents reported being not married with no children under 18 living in their household. One-third of respondents reported being married and 30% reported having children under the age of 18 living in their household

Marital and Parental Status	
Not married/no kids < 18	29
Not married/kid(s) < 18	11
Married/no kids < 18	11
Married/kid(s) < 18	8
Refused	1

Number of Children < 18 in Household	
0	41
1	9
2	7
3	0
4 or more	3

Ethnicity of respondents was also tracked in the two ACS rounds of cognitive interviewing. The split between Hispanic and not Hispanic was roughly half because some of the English language interviews were with Hispanic respondents. Twenty-eight respondents reported that they were Hispanic compared to 32 who were not. The chart below shows the breakdown of respondents by ethnicity.

Race	
White	29
Black or African American	11
American Indian or Alaska native	2
Asian	3
Native Hawaiian or Other Pacific Islander	0
[not codeable/responded Hispanic]	15

Finally, age and education level were also tracked. Roughly half of the respondents were in the 35-54 age range. There was one interview with a respondent over the age of 65. At initial recruiting, it was reported that this respondent was under the age of 65. Once this error was discovered the team decided to proceed with the interview because of the unique dual coverage of the respondent who had both MassHealth and Medicare.

Age	
18-34	13
35-54	29
55-64	16
65 or older	1
Refused	1
Education	
Less than BA	44
BA or higher	15
Refused	1

III. Findings and Analysis

The first question on coverage, ACS question 16 is currently in use in the American Community Survey. In both rounds, therefore, the question was asked without changes. The purpose of testing it in this study was to see how it worked in a state where Health Reform has already been implemented, and in particular, where exchange programs are in operation. Would respondents with exchange coverage (fully subsidized, partially subsidized, self-purchased) be able to select a response they felt fits their situation from among the choices offered? Would any of the types of coverage listed in the question receive false positives or false negatives? Because the question was tested without changes across rounds, the findings from both rounds are discussed together.

A number of basic concepts were probed on, to make sure respondents understand them as intended. The concept of 'health insurance or health coverage plans' was well understood across languages. The Concept of 'current' coverage was also universally well understood and interpreted as intended, that is, as coverage in effect at the time of interview. No problems or issues were encountered in English or Spanish.

None of the sixty respondents interviewed reported having military or VA coverage, or coverage from the Indian Health Service, in question 16 or in the original screening.

In the first round there were 8 Commonwealth Choice (exchange - private plan - no subsidy) respondents and in the second round there were 6. In round 1 they divided almost evenly between those who answered Yes to 'Other' (16h) and specified Commonwealth Choice or the plan name, and those who answered Yes to 'Purchased directly from ...' (16b) (though one respondent clarified that the purchase is not directly from an insurance company). One respondent left the question blank because he was not sure where to classify coverage and did not use Other, and another respondent gave multiple answers (Yes to 16a-ESI, Yes to 16h (Other: Tufts), and Don't Know to 16b (direct purchase)). This latter respondent was screened as having Commonwealth Choice but said she gets Commonwealth Choice through her employer. In round 2, three answered direct purchase, two answered Other and specified the plan name, and one answered Don't Know at direct purchase.

There were a variety of responses for those who have Commonwealth Care (exchange plan fully or partially subsidized). In round 1, the largest group (n = 8) answered Yes to 16d (Medicaid...). The others answered with multiple responses. Several respondents who are on MassHealth did not feel any of the options listed/read included their plan and said Yes to Other, while others answered yes to 16d (Medicaid...). In round 2, two-thirds of those who pay a premium under Commonwealth Care answered Yes to Direct Purchase, while the remainder answered Medicaid, MassHealth, or provided the plan name. There were no respondents in round 2 who had fully subsidized Commonwealth Care.

There were a few other varied issues in question 16. First, among those saying Yes to multiple answers, there appeared to be confusion as to what coverage they have, mostly stemming from lack of knowledge or clarity, and not because of issues interpreting the question. For instance, some respondents who were uncertain if their coverage was Medicare or Medicaid chose both. The definition of Medicaid offered to them appeared to help some of the Commonwealth Care and some of the MassHealth respondents answer Yes, as the mention of low income suggested this fit their situation.

In the self-administered version, the instruction at Q16 to Mark Yes or No for EACH type of coverage was disregarded (not read, not understood, or forgotten after marking a Yes) in most Spanish cases and few English cases. Among those who understood this instruction well, not all complied, as once they found a response that fit them, they left the rest blank. In a few cases, if anything was left blank, it was because the respondent was not sure what to answer.

Alternative wording was tested for question 16b: "Purchased directly" [comprado directamente, for Spanish] without mention of insurance company. There was no strong evidence suggesting this change would offer a better alternative. For some respondents this alternative begs the question "From whom?" or sounds like it is missing something. Worthy of mention is the fact that the Spanish self-administered version has one difference in wording with the CATI/CAPI version: for direct purchase, the paper copy uses the term 'adquirido' [purchased/acquired] instead of 'comprado' [purchased/bought]. Probing showed that not all respondents are familiar with the term 'adquirido,' while all understood 'comprado' as intended.

In the self-administered version, the phrase in parentheses at 16a and 16b that says "(this person or another family member)" was probed in round 1 among the few cases that chose one of those answers. No evidence of difficulty interpreting this phrase was identified in either language.

Among those who answered Yes to Other in round 1, the largest group (n=9) indicated they chose it because they did not feel their coverage fit anywhere else (2 had MassHealth, 3 had Commonwealth Care, and 4 had Commonwealth Choice). Some used 16h to specify the name of the plan they had already reported under the right type of program above. In round 2 only three respondents selected Other, and they did so either because they did not find their program listed (Commonwealth Choice; MassHealth) or wanted to specify the plan name.

Question Version Findings

Question 17

In each round, there were two versions tested for question 17. In the first round, the two versions were:

Version A

English: Is the cost of your health insurance reduced based on your family income?

Spanish: ¿Se ha reducido el costo del seguro de salud suyo basado en el ingreso de la familia?

Version B

English: Is the cost of the health insurance premium reduced based on your family income?

Spanish: ¿Se ha reducido el costo de cuota mensual del seguro de salud basado en el ingreso de su familia?

All round 1 respondents answered this question except for two who in the self-administered version skipped it because they did not read or properly understand the instruction above it. The two versions differed in terms of what may be reduced based on family income: the cost of health insurance versus the cost of the health insurance premium.

A main issue with these questions, in either version, was that respondents who pay no premium or out of pocket expenses for their coverage were confused as to how to respond. The question asks about a cost they do not incur. For those who pay no premium but do pay out of pocket expenses, Version B was more problematic than Version A. Also, when probed in Version B, most showed they understood the term 'premium', but not all.

Whose income did respondents consider in formulating their answer? This depended on the size of the household. Respondents in one-person households mostly only thought about their own, not their extended family living elsewhere. Respondents living with family members for the most part considered the full family income. However, the mention of family income was confusing to some respondents in one-person households and to some who may live with family but keep separate finances (an adult child, for instance).

How did each version perform? More of the MassHealth-covered respondents answered No to Version B than to Version A. Commonwealth Choice respondents tended to answer No in both versions; many indicated that income is not asked by the program. Commonwealth Care respondents answered Yes or No in about the same proportions to both versions. Regardless of Version, when respondents were offered the alternate version A or B, the majority felt it asked the same question as they had just responded to in question 17.

The concept of 'is reduced' presented a number of problems. First, it was interpreted differently by different respondents. While some thought it meant that the cost had already been reduced and they were paying a smaller amount, others interpreted the phrase as a hypothetical 'would it be reduced' should their income change. Some respondents simply did not know the answer, despite interpreting the question as intended, that is, they did not know if the amount they were paying was or was not based on their income. There was also lack of consistent interpretation as to what the cost was reduced from, that is, whether it was reduced compared to what others paid or to what they themselves were paying before. Finally, for those who do not pay a premium at all, the idea of paying a reduced cost when coverage is fully subsidized was odd to some.

There were some alternate interpretations of the questions or to some aspects of them. When cost of coverage typically goes up every year, some respondents had a difficult time thinking about it as being reduced. In addition, in Massachusetts, Commonwealth Care respondents can choose among several plans; those who selected a plan with lower or no premium, did not feel the cost was reduced based on their income; they saw the cost reduced based on their choice of plan and benefits.

What about accurate responses based on the respondent's reality? Most of those who pay no premium answered Yes, but the ones who do pay answered Yes and No in similar numbers.

A third version was tested during probing, "Does the cost of the premium change if family income changes?" This version was well received and appeared to do away with the problems of 'reduced'. It was generally understood more as a hypothetical rather than as something already in place.

Based on the round 1 findings, a number of recommendations were made for round 2, as follows:

1. Simplify the testing protocol by reducing probes that were not productive in round 1, or where enough information was collected in round 1.
2. For question 17, if the intent of the question is to have respondents think ONLY of the cost of the premium, the wording should refer to the premium specifically as it was in version B. However, if the intent of the item is to include also co-pays or deductibles, then the wording used in version A 'the cost of health insurance' should be used.
3. To avoid the confusion to some respondents of mentioning family income, consider using phrase 'you or your family's income'.
4. For some respondents, a change in income would not imply a reduction or an increase in premium, but rather having to change programs or coverage altogether. For instance, a

person covered under MassHealth or Commonwealth Care whose (family) income increases may grow out of the program and qualify for Commonwealth Care or Commonwealth Choice respectively. The reverse is also true should income decrease. This makes a question about premium reduction not quite applicable in some cases.

5. Because of the issues with 'reduction' and the fact that the version "Does the cost of the premium change if family income changes?" presented fewer problems, we recommend testing this question with some changes. First, consider if it should be with or without the mention of 'premium' depending on intent (see point 2 above). Second, consider change mentioned in point 4 above.

Thus, the question could read:

- A. Does the cost of the premium change if family income changes?
- B. Does the cost of the health insurance change if family income changes?
- C. Does the cost of the premium change if your or your family's income changes?
- D. Does the cost of the health insurance change if your or your family's income changes?

We proposed to test an alternative version to compare with whichever of the four options above is tested in the questionnaires. This could be done either as a version B questionnaire or by providing a showcard . We proposed to have that version read:

If there is a change in your or your family's income, would you have to pay more or less than you currently pay for coverage?

<Spanish version: Si cambia el ingreso suyo o de su familia, ¿tendría usted que pagar más o menos que lo que paga ahora?>

Based on the ACS team's decisions after considering the round 1 findings, in round 2, question 17 became a two-part question, first filtering out those respondents who do not pay a monthly premium. The two versions tested were:

Version C

English:

17a. Is there a monthly premium for this plan? *A monthly premium is a fixed amount of money people pay each month to have health coverage. It does not include copays or other expenses such as prescription costs.*

Yes

No → SKIP to question 18

17b. Is the cost of the premium reduced based on family income?

Yes

No

Spanish:

17a. ¿Tiene este plan una cuota mensual? *Una cuota mensual es una cantidad fija de dinero que se paga todos los meses por la cobertura de salud. No incluye los copagos u otros gastos, tales como los costos de las medicinas recetadas.*

Sí

No --> pase a la pregunta 18

17b. ¿Se ha reducido el costo de su cuota mensual debido al ingreso de la familia?

Sí

No

Version D

English:

17a. Is there a monthly premium for this plan? *A monthly premium is a fixed amount of money people pay each month to have health coverage. It does not include copays or other expenses such as prescription costs.*

Yes

No → SKIP to question 18

17b. Is the cost of the premium subsidized based on family income?

Yes

No

Spanish:

17a. ¿Tiene este plan una cuota mensual? *Una cuota mensual es una cantidad fija de dinero que se paga todos los meses por la cobertura de salud. No incluye los copagos u otros gastos, tales como los costos de las medicinas recetadas.*

Sí

No --> pase a la pregunta 18

17b. ¿Está subsidiada su cuota mensual debido al ingreso de la familia?

Sí

No

How did these new versions work? First, question 17a was a welcome addition. It worked as intended: respondents who pay a premium answered Yes, and no false positives were detected. This was true in both languages. Also, while some respondents in English did not interpret the

meaning of 'premium' as intended (instead thinking of 'high quality coverage'), others knew what it meant even if they could not adequately define it. Therefore, the soft edit (READ IF NECESSARY) in the interviewer-administered modes proved to be necessary and useful for some respondents.

For 17b, in Version C the term 'reduced' presented problems for respondents whose premium had recently gone up (due to the recent beginning of the new plan year for exchange programs, this had happened for most respondents within the last quarter). It also presented problems in Spanish as the translation asks about the premium **having been** reduced, rather than paying a **reduced premium**. Some respondents think 'reduced' means that the premium is lower, not that someone else pays part of it. Findings similar to those in round 1 were also seen in this round with the term reduced.

In Version D, 'subsidized' was not clear to all. To one respondent the question is asking people if they agree to pay a monthly payment for their coverage. Others who understood the term and whose coverage is actually subsidized, did not feel their coverage is subsidized because they pay a premium and do not know of anyone else paying part of it. Additionally, in one case at least it was received as a term with negative connotations ("handout").

Questions 16 and 17 Combined

The performance of question 16 and question 17 individually, while important and the focus of our cognitive testing effort, do not tell the complete story. To ascertain if a respondent is covered through an exchange and whether that coverage is fully, partially, or not subsidized at all, it is necessary to combine the responses to both questions. While some of the story is told simply by combining the responses, in other cases the answer(s) to question 16 will need to be recoded based on ancillary information, either from other questions in the ACS or from the combination of answers to 16 and 17.

The following charts for round 1 and round 2 were compiled by Carla Medalia at Census, and show how the combination of the responses can be used to elucidate the coverage situation for each respondent.

In addition to looking at each question individually, it is important to consider the coverage questions in tandem and the extent to which appropriate coverage coding rules can be determined when all available data is taken together. Carla Medalia of the Census team, reviewed the round 2 data and determined that it is possible to improve the overall accuracy of coverage reporting when both questions 16 and 17 are considered together. In nine cases of the thirty round 2 cases, a respondent's response for him/herself could be imputed using the two questions combined to determine a correct code when the respondent's actual responses were inaccurate.

Reviewing the two questions in tandem was especially valuable when examining the Commonwealth Care Premium cases where respondents gave a variety of responses as they tried to fit their situation into the categories available. Two-thirds of the time, respondents included Direct Purchase in the response and 25% of the time they marked 16d, which includes the words ‘government assistance’ that they keyed into since they were aware that it did include a government subsidy. In 75% of the cases respondents marked 17b, indicating that their premium was subsidized/reduced. Interestingly, two of the three cases that did not believe they received a subsidy/paid a reduced premium, marked 16d (government assistance). As the table illustrates below, without using question 17 to clarify the type of coverage they have, it would be difficult to infer that these 12 respondents all have the same type of coverage.

Commonwealth Care Premium	N=12
Direct Purchase (16b)	5
Medicaid (16d)	2
Other (16 h)	1
Direct Purchase (16b) & Other (16h)	2
Direct Purchase (16b) and Medicaid (16d)	1
Medicaid (16d) and Other (16h)	1

Likewise, Commonwealth Choice participants were more easily identified when both questions were taken in tandem.

Commonwealth Choice	N=6
Direct Purchase (16b)	3
Other (16 h)	2
Direct Purchase (16b) & Other (16h)	1

Participants were split between responding ‘Yes’ to 16b, Direct Purchase and 16h, Other. However, all respondents knew they paid a premium and that the premium was not reduced.

IV. Recommendations

Question 16 is in use currently by ACS and therefore will remain as is, unchanged, despite findings from testing. However, since this is the first time the question has been tested with respondents with exchange coverage, we recommend, on the basis of our findings and for future testing, that Census look into the possibility of adding one or more response choices that may be more appropriate to exchange-covered individuals. Until more is known about how different states will publicize or name their exchanges, this should be tabled.

For question 17, given the impossibility of further testing before making a decision for a version to field in ACS, we recommended two possibilities in advance of the final meeting:

1) Is your premium reduced or subsidized based on family income?

However, this option has never been tested with both terms, only with each separately.

2) Is your premium subsidized based on family income? To this version a definition would be included for subsidized. Several definitions were discussed but there was no consensus. Thus, we recommend census continue to consider the possibility of adding and testing one in the future.

This option has been tested but without a definition. The risk here is that some respondents will not know the meaning of subsidized, unless it is defined.

For the future, new questions may need to be designed or current ones revised as states begin giving tax credits. As that happens, the constructs behind the questions that will need to be asked may not correspond to anything that will be known by many respondents, as it will happen "behind the scenes".

V. Conclusions

This study accomplished its goals: to test the ACS question 16 in Massachusetts with a varied population primarily consisting of individuals who have coverage through the state Exchange and to test a new question on subsidy with the same population.

Across two rounds of cognitive testing, the new question was refined to better capture the realities of exchange coverage, while still adequately capturing the realities of any other type of coverage. It also helped to shed additional light on language access issues in obtaining coverage through the State programs.

As is often the case in cognitive testing projects, regardless of the number of rounds conducted, some questions remain at the end of the final round. In this case, a few issues remained unresolved at the end of data collection. To find out about subsidies, the two-part question

approach worked best – asking first about paying a premium and then asking about whether it is subsidized. While question 17a worked well and can be used as tested, question 17b will require adding a soft edit (or READ IF NECESSARY definition).

The questions worked well with the limited number of non-exchange covered respondents, thereby suggesting no new error was introduced with these questions.

As the 2014 national rollout of the ACA in all states approaches, further research should test the questions in states with different models of exchange programs as they begin operating.