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Date

SERIOUS PSYCHOLOGICAL DISTRESS AMONG US ADULTS WITH ARTHRITIS: PREVALENCE AND BARRIERS TO RECEIVING CARE

 $\mathbf{B}\mathbf{Y}$

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SERIOUS PSYCHOLOGICAL DISTRESS AMONG US ADULTS WITH ARTHRITIS: PREVALENCE AND BARRIERS TO RECEIVING CARE

BY

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An abstract of A Thesis submitted to the Faculty of the Rollins School of Public Health of Emory University in partial fulfillment of the requirements of the degree of Master of Public Health in the Executive MPH program 2015

Abstract

SERIOUS PSYCHOLOGICAL DISTRESS AMONG US ADULTS WITH ARTHRITIS: PREVALENCE AND BARRIERS TO RECEIVING CARE

BY

Laura Straub

Background: For those with arthritis, mental health comorbidities can exacerbate disability, interfere with disease management, and are associated with worse outcomes. Interventions to improve mental health among individuals with arthritis have demonstrated improvements in both psychological and physical outcomes, underscoring the importance of identifying and treating individuals with arthritis and concomitant mental health comorbidities.

Objectives: Estimate the prevalence of SPD and other relevant characteristics among US adults with self-reported arthritis compared to those without arthritis; determine the distribution of relevant characteristics among the adult population with arthritis and SPD; and, use multivariable modeling to examine characteristics associated with receiving mental health care in the past year for the subset of adults with arthritis and SPD.

Methods: This analysis used sample adult data from the 2011-2013 National Health Interview Survey (NHIS) (N=102,096). Prevalence of SPD and other characteristics was calculated for the populations with arthritis (N=24,954) and without arthritis (N=77,006). Using the subset of adults with arthritis and SPD (N=1762), logistic regression was used to identify correlates of receiving mental health care in the past year.

Results: The arthritis population has higher prevalence of SPD compared to the adult population without arthritis (6.8% vs. 2.4%). Among the subset of individuals with arthritis and SPD, being Asian (OR=0.2, 95% CI=0.0-0.8), lacking health insurance (OR=0.5, 95% CI=0.3-0.7) and having less education (OR=0.3, 95% CI=0.2-0.5) make it less likely to have seen a mental health professional in the past year (controlling for other variables). Not being able to afford mental health care was also associated with seeing a mental health professional in the past year (OR=1.6, 95% CI=1.1-2.4).

Conclusion: This data suggests the need to increase delivery of mental health services to individuals with arthritis and SPD, and revealed certain populations who may experience gaps in adequate mental health treatment (low education, lack of health insurance). Not being able to afford mental health care or counseling in the past year was also associated with seeing a mental health professional in the past year (OR=1.6, 95% CI 1.1-2.4) (a counterintuitive finding). This may suggest limits on coverage preventing the full extent of care required.

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INTRODUCTION

Arthritis is the leading cause of disability in the US [1], and can substantially worsen health-related quality of life [2, 3]. The prevalence of mental health comorbidities such as Serious Psychological Distress (SPD), depression, and anxiety has been shown to be higher among adults with arthritis compared to the general population [4-6]. Mental health comorbidities in individuals with arthritis are part of a complex web of relationships that also include pain, fatigue, and disability [7-12]. These can relate to each other as both exposures and outcomes: deterioration in one area can directly or indirectly affect the other three. Mental health comorbidities are of concern for individuals with arthritis and other chronic diseases because they have been shown to exacerbate disability [13, 14], interfere with disease management [15, 16], and are associated with worse outcomes [17, 18]. Interventions to improve mental health among individuals with arthritis have been shown to improve both psychological and physical outcomes [19-22], underscoring the importance of identifying and treating individuals with arthritis and concomitant mental health comorbidities.

Access to adequate mental health care is an important policy issue for the US population at large. Common barriers to receiving mental health care are frequently financial, but can also include low perceived need and attitudinal barriers [23, 24], and stigmas associated with mental illness [25]. In arthritis patients specifically, one study found that 42% of respondents did not obtain needed mental health services, citing financial issues, insurance coverage limits, and "lack of need" as the reason for not receiving a service [26]. Understanding barriers to mental health care among individuals with arthritis will help providers better identify those who may benefit from counseling or other treatment, and design interventions to address gaps in care delivery. This analysis will build upon findings from previous studies by using data from the 2011-2013 National Health Interview Survey (NHIS) to accomplish the following objectives: 1) estimate the prevalence of SPD and other characteristics among US adults with self-reported arthritis compared to those without arthritis, 2) determine the distribution of relevant characteristics, such as sociodemographic variables and access to care, among the subset of individuals with arthritis and SPD, and 3) focusing on the subset of adults with both arthritis and SPD, use multivariable models to examine characteristics associated with receiving mental health care or not in the past year. It should be noted that the focus of this analysis is *not* to assess arthritis as a predictor of SPD when controlling for other variables, but rather to reveal characteristics amongst adults with arthritis and SPD that may help identify those in need of improved access to mental health treatment.

METHODS

Dataset. The NHIS is an in-person household interview survey that is representative of the US civilian non-institutionalized population and is conducted by the Census Bureau interviewers continually throughout the year using a multistage, complex sampling design [27]. NHIS collects data on a broad range of health topics, including self-reported arthritis status and mental health conditions (depression, anxiety, stress, fatigue). In order to increase the available sample size, data from the 2011-2013 sample adult populations were pooled. The final analysis dataset included a total of 102,096 individuals.

Arthritis status was determined by the question, "*Have you ever been told by a doctor or other health professional that you have some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia?*" Individuals were determined to have SPD, a non-specific indicator of mental health problems, using the standardized and validated Kessler 6 (K6) screening scale [28, 29].

K6 scores are comprised of responses to six questions asking how often in the past 30 days the individual felt "nervous," "restless," "hopeless," "worthless," "everything feels like an effort," and "so sad that nothing cheers them up." The responses for each question range from 0 (none of the time) to 4 (all of the time). The responses for these six variables are summed to obtain the K6 score (maximum possible score of 24), and individuals with a score of 13 or above are considered to have SPD [28].

Sociodemographic characteristics included age, sex, race, income-to-poverty ratio, education, employment, and marital status. Body Mass Index (BMI) was calculated for each individual using self-reported height and weight. Physical activity was assessed by whether individuals met the recommendations outlined in the 2008 Physical Activity Guidelines for Americans from the Center for Disease Control's (CDC) Division of Nutrition, Physical Activity, and Obesity (DNPAO) [30]. The total number of comorbid conditions was determined by summing the presence of the following conditions: hypertension, cardiovascular condition (angina, myocardial infarction, coronary heart disease), stroke, respiratory condition (asthma, emphysema, chronic bronchitis), cancer, diabetes, weak or failing kidneys, liver condition, or ulcer [31].

Functional limitations were categorized from low to high according to an average score that was obtained from questions about an individual's ability to perform nine activities (walk a quarter mile; climb 10 steps; stand for 2 hours; sit for 2 hours; stoop, bend, or kneel; reach overhead; grasp small objects; lift/carry 10 pounds; and push large objects) without special equipment. For each activity, responses range from 0 (not at all difficult) to 4 (can't do at all). Social limitations, referred to as Social Participation Restriction [32], were determined using questions that assess how difficult it is to go out to events or participate in social activities without special equipment. Self-reported overall health was included.

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Measures of health care access and utility included health insurance status, total number of doctor office visits in the past year, seeing a mental health professional in the past year (the outcome of the multivariable model), and being able to afford mental health care or counseling in the past year.

For a complete list of variables included in the analysis and their final categorization, see

Appendix A – Variable Definitions and Recodes.

Statistical analyses. The prevalence of SPD and the other above-listed variables was estimated using sample adult weights and compared between the population with arthritis (N=24,954) and without arthritis (N=77,006). Differences in the distributions of characteristics between those with and without arthritis were assessed using the chi-square test and considered significant at α =0.05. In the subgroup of adults with arthritis (n=24,954), the distribution of characteristics for those with SPD (N=1762) were compared to those without SPD (arthritis only, n=22,708).

Using the subset of adults with arthritis *and* SPD (N=1762), logistic regression (accounting for the complex survey design) was used to identify correlates of receiving mental health care in the past 12 months. Unadjusted odds ratios (ORs) were calculated for all covariates, and unadjusted associations that were significant at the α =0.05 level were considered for inclusion in a final multivariate model. All independent variables were assessed for multicolinearity using Pearson correlation matrices.

To build a final model, age, sex, and race were retained regardless of significance, and served as the basis of the main effects multivariable model. Other variables with statistically significant unadjusted ORs for receiving mental health care in the past year were added to the base model to determine whether they impacted the associations for other variables. The final model included variables that were still statistically significant when included in a model

together, as well as any non-significant variables that appeared to significantly impact the ORs of other covariates when excluded. Because it is feasible that insurance status could significantly affect whether someone is able to afford mental health care in the past year, the interaction between these two variables was assessed for inclusion in the final model.

Figure 1 outlines the NHIS population subsets used for each of the above-described analyses.

All procedures were carried out using SAS 9.4 (Cary, NC).



RESULTS

Table 1 presents the prevalence of characteristics of the sample adult population stratified by arthritis status. Compared to the non-arthritis population, individuals with arthritis are older (38.3% aged 65+ vs. 11.7%), have a higher proportion of women (59.5% vs. 49.5%) and non-Hispanic whites (77.4% vs. 64.4%), and a lower proportion with college graduates (23.5% vs. 30.0%).

Consistent with the higher proportion of older individuals, the arthritis population also has a significantly higher proportion of individuals who are disabled (16.0% vs. 4.2%) and who have public-only health insurance (32.4% vs. 17.1%). Those with arthritis are less likely to have no insurance (8.5% vs. 19.5%). Individuals with arthritis more often report medium (18.0% vs. 3.5%) or high (18.4% vs. 2.5%) functional limitations, report poor/fair health (29.1% vs. 8.5%), and less meet the recommended physical activity levels for adults (37.8% vs. 52.7%).

The arthritis population has higher proportions of SPD (6.8% vs. 2.4%), depression in the past 12 months (19.4% vs.7.3%), and report being frequently anxious in the past 12 months (29.3% vs. 16.3%). Compared to the adult population without arthritis, a higher proportion of the arthritis population saw a mental health professional in the past 12 months (11.1% vs. 6.7%).

Table 2 presents the distribution of characteristics for the subgroup of adults with arthritis and SPD (n=1762) compared to adults with arthritis only (n=24,954). As a whole, individuals with arthritis and SPD are worse off than those with arthritis only. The subset of adults with arthritis and SPD has substantially higher proportions of individuals with less than a high school education (30.0% vs. 14.5%), work disability (54.1% vs. 13.1%), low income-to-

poverty ratio (36.9% vs. 11.7%), high level of functional limitations (53.9% vs. 15.5%), and social participation restriction (38.6% vs. 8.9%).

Adults with arthritis and SPD similarly report significantly higher levels of stress (93.1% vs. 34.3%) and fatigue (82.3% vs. 34.3%) in the past 12 months. Of those with SPD, over three quarters (77.2%) reported having depression in the past 12 months, compared with only 15.5% in the non-SPD group. Sixty-one percent of those with SPD did not see a mental health professional in the past 12 months. A higher percentage of individuals with SPD also reported not being able to afford mental health care in the past 12 months (22.2%) compared to those without SPD (2.2%), although this may be attributable to the assumption that the group with SPD more actively sought mental health treatment and encountered financial barriers, vs. the non-SPD group who may not have attempted. Those with SPD also are more likely to not have health insurance (17.4% vs. 7.9%).

Table 3 reports the unadjusted and adjusted ORs for the association of each characteristic with seeing a mental health professional in the past year among the subset of adults with arthritis *and* SPD (n=1762) (i.e., higher ORs indicate increased odds of seeing a mental health progression). The unadjusted ORs indicate that the likelihood of seeing a mental health care provider decreased with age and increased with higher levels of education (OR for "less than high school" = 0.4, 95% CI=0.2-0.7). Those who identified as Asian were less likely to see a mental health care provider (OR=0.2, 95% CI=0.1-0.6) than those identified as other race categories. Individuals with only public insurance (vs. private; OR=1.4, 95% CI=1.0-1.9) and who are divorced/separated (OR=1.3, 95% CI=1.0-1.8) and never married (vs. married; OR=1.7, 95% CI=1.2-2.5) were somewhat more likely to see a mental health provider, while widowed individuals were less likely to (OR=0.6, 95% CI=0.4-0.9). Individuals with anxiety, depression, stress, feelings interfering with life, and poor/fair health proceptions were more likely to report

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seeking mental health care in the past 12 months. Also, individuals who were unable to work due to disability (OR=2.0, 95% CI=1.4-2.9) or were unemployed (OR=1.9, 95% CI=1.1-3.3) (vs. employed) were more likely to have seen a mental health provider in the past year. Functional limitations, Social Participation Restriction, physical activity, sex, BMI, additional comorbid conditions, fatigue, income, and lacking health insurance were not associated with receiving mental health care in the past year. Interestingly, *not* being able to afford mental health care or counseling in the past 12 months was associated with seeing a mental health professional in the past year ($OR=1.8 \ 1.3-2.5$).

Table 3 also reports ORs from the final adjusted model. The final model included demographics (age, sex, race), education, insurance, employment, and ability to afford mental health care in the past year. Although the unadjusted ORs for anxiety, depression, stress, and fatigue were statistically significant, these variables could all be considered outcomes, exposures, or intervening variables of each other and SPD, and as such were excluded from the model. Further, these variables were only assessed in 2012 (this analysis combined years 2011-2013), and excluding single year variables allowed a larger sample size. The total number of office visits could also include mental health visits, so this was also excluded. Because education, employment, and insurance status could presumably be correlated with each other and contribute to whether an individual is able to receive mental health care, each of these variables were assessed in separate models with the demographics. Marital status was significant when considered by itself, but when included in a model with other significant variables it was no longer statistically significant, so was left out of the final model.

The interaction between insurance status and ability to afford mental health care in the past year was assessed and found to be non-significant. Inclusion of the interaction term in the model was not significant. Although the interaction term was not significant, the stratified odds

ratios did show some differences worthy of note. Stratifying by the ability to afford counseling, having public only health insurance (vs. private) was associated with seeing a mental health professional in the past year (OR=1.6, 95% CI=1.1-2.2) only for those who report being able to afford mental health care. For those unable to afford mental health care, having public only health insurance (vs. private) was not associated with seeing a mental health professional (OR=1.0, 95% CI=0.5-2.3). When stratifying by health insurance status, being unable to afford mental health care (vs. able to afford) was associated with receiving mental health care only among those with private health insurance (OR=2.3, 95% CI=1.2-4.3). Being unable to afford care was not associated with receiving care among those with public only insurance (OR=1.5, 95% CI=0.9-2.6) or no insurance (OR=1.8, 95% CI=0.9-3.5).

Compared to the unadjusted associations, the final adjusted associations for age, sex, race, education, and employment status all exhibit similar values for the association with seeing a mental health professional in the past year. The OR for being retired (compared to being employed) changed direction in the adjusted model, but was not statistically-significant. In the adjusted model, those without health insurance are less likely to have seen a mental health professional in the past year, and this relationship is significant (OR=0.5, 95% CI: 0.3-0.7), unlike in the unadjusted associations. *Not* being able to afford mental health care was still associated with seeing a mental health professional in the final model (OR=1.6, 95% CI=1.1-2.4).

Table 3 includes the adjusted ORs for the final model only, and **Appendix B** includes the adjusted ORs for all other models that were assessed during the modeling process (including the stratified odds ratios associated with the interaction term).

DISCUSSION

The totality of these findings suggest that: 1) there is a higher prevalence of SPD among those with arthritis compared to the population without arthritis, consistent with previous findings [4] (see **Table 1**); 2) Among the subset with arthritis and SPD, a large proportion report not receiving mental health care in the past year (60.8%), and are generally worse off than those with arthritis only (lower education, lower income, more disability, etc.; see **Table 2**); and, 3) among the subset of individuals with arthritis and SPD, being Asian, lacking health insurance, and having less education make it less likely to have seen a mental health professional in the past year when controlling for other variables (see **Table 3**). Income was not associated with seeing a mental health professional, an indication that health insurance or other non-financial barriers may play a larger role in receiving or not receiving care.

Overall these data suggest the need to increase the delivery of mental health services to the population with arthritis and SPD, and confirm findings from other studies that insurance coverage is an important barrier to care. Individuals with arthritis and SPD have characteristics that likely interfere with overall wellbeing and disease management (stress, fatigue, functional and social limitations, etc.) which may help providers identify individuals in need of mental health interventions to improve overall outcomes.

One seemingly counter-intuitive finding, among those with arthritis and SPD, *not* being able to afford mental health care or counseling in the past year was *also* associated with seeing a mental health professional (OR=1.6, 95% CI 1.1-2.4). This may indicate that although these individuals were able to see a mental health professional in the past year, they may not be getting the full extent of care they require. In the NHIS survey, the question assessing whether someone

could afford mental health care in the past year was worded as follows: "During the past 12 months, was there **any time** [emphasis added] when you needed any of the following but didn't get it because you couldn't afford it? ... Mental health care or counseling." It is possible that some individuals with arthritis and SPD were able to receive counseling at some point during the year, but this was not adequate to fully address their needs and were limited due to financial or coverage obstacles. This would be consistent with findings from one study reporting that 26% of individuals with arthritis who had difficulty receiving mental health services cited "limits on the number of visits" as the reason for not obtaining care [26].

Although the interaction term between health insurance status and being able to afford mental health care in the past year was not significant, the stratified odds ratios offer some possible insight. Stratifying by ability to afford care, having public only health insurance (vs. private) was associated with seeing a mental health professional in the past year (OR=1.6, 95%) CI=1.1-2.2, see **Appendix B**) only for those who report being able to afford mental health care. This may suggest variability in coverage levels for different kinds of public health insurance, or alternately, that some individuals with public-only insurance may not know that mental health treatment is covered (if it is) and as such do not seek it. Stratifying by health insurance status, among those with any private health insurance, those who were unable to afford mental health care had 2.3 times the odds of receiving care (95% CI=1.2-4.3) than those who reported being able to afford care. In comparison, being unable to afford care (vs. able to afford) did not reach significance for the association with receiving care among those with public only or no health insurance. This may again suggest that private plans allow individuals to access some mental health services, but there may be limits that prevent the full extent of care desired. These findings warrant further analyses to clarify how financial or coverage barriers prevent adequate treatment.

For the substantial proportion of individuals with arthritis and SPD who reported not seeing a mental health care professional in the past year (see **Table 2**), there may be other barriers unrelated to financial/health coverage reasons that may prevent them from seeking help. For example, stigmas about mental illness [25] or the belief that mental health problems can be overcome on their own [25, 26] may prevent some individuals from addressing the issue with providers. Lack of continuity of care has also been reported as a hindrance to establishing the comfort level needed for patients to introduce mental health concerns [25]. These barriers were not examined in NHIS and could provide further explanation for not receiving care.

The finding that Asians were less likely to see a mental health provider in the past year is consistent with other studies that found unmet mental health needs among Asian populations [33], which is possibly related to attitudinal barriers [34]. It should be noted, however, that the subset of Asians with arthritis and SPD in this analysis was very small (n=36), so this finding should be interpreted with some caution.

The outcome of interest for this analysis was whether someone received mental health care in the past year, but given the complex relationship between affording and accessing care, future analyses could alternately use "not being able to afford mental health care or counseling" as the outcome to identify correlates of not being able to afford care and further explore the relationships between affording and receiving mental health care.

Arthritis status was based on self-report which is less preferable than doctor-diagnosed cases, but this should be of minimal concern as there is generally high agreeability between self-report and physician-diagnosed chronic conditions [35]. It is possible that only the more severe cases of arthritis seek professional help and thereby the opportunity to receive a doctor diagnosis, so this analysis may be limited to those with slightly more severe disease. The response rate for the NHIS sample adult module was 81.6% for 2011, 79.7% for 2012, and 81.7% for 2013 [36].

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Populations willing to participate in surveys can be different than those who refuse (may have more available time due to retirement, unemployment, disability, etc.) and as such older and unemployed populations may be over-represented. This analysis included the major variables related to whether someone saw a mental health professional in the past year, but there always could be other significant predictors that were not taken into account.

CONCLUSIONS

Pain, disability, and mental health conditions interact in complicated ways to impact outcomes in individuals with comorbidities, and mental health treatment should be an important part of a multi-pronged approach to improving outcomes in this population. Because pharmacologic and cognitive-behavioral therapies can be successful for treating mental health conditions, and treatment for depression has been shown to improve outcomes for those with arthritis [21], others have suggested making screening for anxiety and depression in arthritis patients standard practice [37], particularly because patients may not bring up the subject on their own [25]. This analysis revealed certain populations who may experience gaps in adequate treatment (low education, lack of health insurance).

Health coverage and access to mental health services is a substantial and challenging policy issue, and even with improvements in identifying individuals who require mental health services, there may still be financial, attitudinal, or insurance coverage obstacles to receiving adequate care. This analysis also suggests that even if some mental health services are attained, there may be limits on coverage that prevent the full extent of needed care. If delivering adequate mental health services is an ongoing challenge, there may be other ways of improving both mental and physical health outcomes by better helping patients treat and manage pain, disability, or other functional or social limitations.

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TABLE 1

Prevalence of characteristics of adults with and without arthritis from the 2011-2013 National Health Interview Survey (NHIS)

nPop NPercent95% ClP-val4 $(14.7 - 16.0)$ $42,155$ $102,919,248$ 56.8 $(56.2 - 57.4)$ <0.0 3 $(45.5 - 47.2)$ $23,727$ $57,009,489$ 31.5 $(31.0 - 32.0)$ <0.0 3 $(37.5 - 39.2)$ $11,124$ $21,179,441$ 11.7 $(11.4 - 12.0)$ <0.0 5 $(58.7 - 60.3)$ $40,778$ $89,603,842$ 49.5 $(49.0 - 50.0)$ <0.0 5 $(39.7 - 41.3)$ $36,228$ $91,504,337$ 50.5 $(50.0 - 51.0)$ <0.0 4 $(76.6 - 78.3)$ $43,899$ $116,642,142$ 64.4 $(63.7 - 65.2)$ <0.0 2 $(10.5 - 11.9)$ $11,579$ $21,896,551$ 12.1 $(11.6 - 12.6)$ <0.0 8 $(7.3 - 8.3)$ $15,156$ $30,283,272$ 16.7 $(16.1 - 17.3)$ <0.0 6 $(2.4 - 2.9)$ $5,595$ $10,800,993$ 6 $(5.6 - 6.3)$ 0 0 $(0.8 - 1.1)$ 777 $1,485,221$ 0.8 $(0.7 - 1.0)$ <0.0 7 $(15.1 - 16.4)$ $11,559$ $24,337,323$ 13.5 $(13.0 - 14.0)$ <0.0 6 $(28.7 - 30.4)$ $19,138$ $45,784,825$ 25.4 $(24.9 - 25.9)$ <0.0 2 $(30.4 - 31.9)$ $23,482$ $56,091,437$ 31.1 $(30.6 - 31.7)$ <0.0 5 $(22.7 - 24.4)$ $22,441$ $53,973,729$ 30 $(29.3 - 30.6)$ <0.0
$ \begin{array}{c} 4 \ (14.7 - 16.0) \\ 3 \ (45.5 - 47.2) \\ 3 \ (37.5 - 39.2) \end{array} \begin{array}{c} 42,155 \ 102,919,248 \\ 23,727 \ 57,009,489 \\ 31.5 \ (31.0 - 32.0) \\ 11,124 \ 21,179,441 \\ 11.7 \ (11.4 - 12.0) \end{array} \\ \begin{array}{c} 5 \ (58.7 - 60.3) \\ 5 \ (58.7 - 60.3) \\ 36,228 \ 91,504,337 \\ 50.5 \ (50.0 - 51.0) \end{array} \\ \begin{array}{c} 40,778 \ 89,603,842 \\ 49.5 \ (49.0 - 50.0) \\ 36,228 \ 91,504,337 \\ 50.5 \ (50.0 - 51.0) \end{array} \\ \begin{array}{c} 40,778 \ 89,603,842 \\ 49.5 \ (49.0 - 50.0) \\ 36,228 \ 91,504,337 \\ 50.5 \ (50.0 - 51.0) \end{array} \\ \begin{array}{c} 41,778 \ 89,603,842 \\ 49.5 \ (49.0 - 50.0) \\ 36,228 \ 91,504,337 \\ 50.5 \ (50.0 - 51.0) \end{array} \\ \begin{array}{c} 41,779 \ 21,896,551 \\ 12.1 \ (11.6 - 12.6) \\ 8 \ (7.3 - 8.3) \\ 15,156 \ 30,283,272 \\ 16.7 \ (16.1 - 17.3) \\ 6 \ (2.4 - 2.9) \\ 0 \ (0.8 - 1.1) \end{array} \\ \begin{array}{c} 70,77 \ 1,485,221 \\ 77,7 \ 1,485,221 \\ 0.8 \ (0.7 - 1.0) \end{array} \\ \begin{array}{c} 40,00 \\ 70,00 \\ 70,00 \\ 70,00 \\ 70,00 \\ 70,00 \\ 70,00 \\ 19,138 \ 45,784,825 \\ 25.4 \ (24.9 - 25.9) \\ 23,482 \ 56,091,437 \\ 31.1 \ (30.6 - 31.7) \end{array} \\ \begin{array}{c} 40,00 \\ 40,0$
$\begin{array}{c} 3(45.5-47.2)\\ 3(37.5-39.2)\\ 11,124\\ 21,179,441\\ 11.7\\ (11.4-12.0)\\ 11,124\\ 21,179,441\\ 11.7\\ (11.4-12.0)\\ 12.7\\ (11.4-12.0)\\ 12.7\\ (11.4-12$
$\begin{array}{c} 3 (37.5 - 39.2) \\ 3 (37.5 - 39.2) \\ 11,124 \\ 21,179,441 \\ 11.7 (11.4 - 12.0) \\ 40,778 \\ 89,603,842 \\ 49.5 (49.0 - 50.0) \\ 36,228 \\ 91,504,337 \\ 50.5 (50.0 - 51.0) \\ 36,228 \\ 91,504,337 \\ 50.5 (50.0 - 51.0) \\ 43,899 \\ 116,642,142 \\ 64.4 (63.7 - 65.2) \\ 2 (10.5 - 11.9) \\ 11,579 \\ 21,896,551 \\ 12.1 (11.6 - 12.6) \\ 8 (7.3 - 8.3) \\ 15,156 \\ 30,283,272 \\ 16.7 (16.1 - 17.3) \\ 6 (2.4 - 2.9) \\ 5,595 \\ 10,800,993 \\ 6 (5.6 - 6.3) \\ 0 (0.8 - 1.1) \\ 777 \\ 1,485,221 \\ 0.8 (0.7 - 1.0) \\ 7 (15.1 - 16.4) \\ 11,559 \\ 24,337,323 \\ 13.5 (13.0 - 14.0) \\ 6 (28.7 - 30.4) \\ 2 (30.4 - 31.9) \\ 23,482 \\ 56,091,437 \\ 31.1 (30.6 - 31.7) \\ \end{array}$
$ \begin{array}{c} < 0.0 \\ 5 \\ (58.7 - 60.3) \\ 5 \\ (39.7 - 41.3) \\ 36,228 \\ 91,504,337 \\ 50.5 \\ (50.0 - 51.0) \\ \\ 4 \\ (76.6 - 78.3) \\ 2 \\ (10.5 - 11.9) \\ 8 \\ (7.3 - 8.3) \\ 15,156 \\ 30,283,272 \\ 16.7 \\ (16.1 - 17.3) \\ 6 \\ (2.4 - 2.9) \\ 0 \\ (0.8 - 1.1) \\ 777 \\ 1,485,221 \\ 0.8 \\ (0.7 - 1.0) \\ \\ 7 \\ (15.1 - 16.4) \\ 11,559 \\ 24,337,323 \\ 13.5 \\ (13.0 - 14.0) \\ 6 \\ (28.7 - 30.4) \\ 2 \\ (30.4 - 31.9) \\ 23,482 \\ 56,091,437 \\ 31.1 \\ (30.6 - 31.7) \\ \end{array} \right \} $
$ \begin{array}{c} 5 & (58.7-60.3) \\ 5 & (39.7-41.3) \\ \end{array} \\ \begin{array}{c} 40,778 \\ 36,228 \\ 91,504,337 \\ \end{array} \\ \begin{array}{c} 40,55 \\ 50.5 \\ 50.0 \\ 50.5 \\ 50.0 \\ 50.5 \\ 50.0 \\ 51.0 \\ \end{array} \\ \begin{array}{c} 40,07 \\ 50.5 \\ 50.0 \\ 51.0 \\ \end{array} \\ \begin{array}{c} 40,078 \\ 43,899 \\ 116,642,142 \\ 11,579 \\ 21,896,551 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.$
$ \begin{array}{c} 5 & (58.7-60.3) \\ 5 & (39.7-41.3) \\ \end{array} \\ \begin{array}{c} 40,778 \\ 36,228 \\ 91,504,337 \\ \end{array} \\ \begin{array}{c} 40,55 \\ 50.5 \\ 50.0 \\ 50.5 \\ 50.0 \\ 50.5 \\ 50.0 \\ 51.0 \\ \end{array} \\ \begin{array}{c} 40,07 \\ 50.5 \\ 50.0 \\ 51.0 \\ \end{array} \\ \begin{array}{c} 40,078 \\ 43,899 \\ 116,642,142 \\ 11,579 \\ 21,896,551 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.1 \\ 12.1 \\ 12.1 \\ 11.6 \\ 12.1 \\ 12.$
$ \begin{array}{c} 5 \ (39.7 - 41.3) \\ 5 \ (39.7 - 41.3) \\ 36,228 \ 91,504,337 \\ 5 \ (50.0 - 51.0) \\ 4 \ (76.6 - 78.3) \\ 2 \ (10.5 - 11.9) \\ 11,579 \ 21,896,551 \\ 12.1 \ (11.6 - 12.6) \\ 8 \ (7.3 - 8.3) \\ 15,156 \ 30,283,272 \\ 16.7 \ (16.1 - 17.3) \\ 6 \ (2.4 - 2.9) \\ 5,595 \ 10,800,993 \\ 6 \ (5.6 - 6.3) \\ 0 \ (0.8 - 1.1) \\ 777 \ 1,485,221 \\ 0.8 \ (0.7 - 1.0) \\ 7 \ (15.1 - 16.4) \\ 11,559 \ 24,337,323 \\ 13.5 \ (13.0 - 14.0) \\ 6 \ (28.7 - 30.4) \\ 19,138 \ 45,784,825 \\ 25.4 \ (24.9 - 25.9) \\ 2 \ (30.4 - 31.9) \\ 23,482 \ 56,091,437 \\ 31.1 \ (30.6 - 31.7) \\ \end{array} $
$ \begin{array}{c} < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 \\ < 0.0 $
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c} 6 & (2.4-2.9) \\ 0 & (0.8-1.1) \end{array} \begin{array}{c} 5,595 & 10,800,993 & 6 & (5.6-6.3) \\ 777 & 1,485,221 & 0.8 & (0.7-1.0) \end{array} \\ \\ 7 & (15.1-16.4) \\ 6 & (28.7-30.4) \\ 19,138 & 45,784,825 & 25.4 & (24.9-25.9) \\ 2 & (30.4-31.9) & 23,482 & 56,091,437 & 31.1 & (30.6-31.7) \end{array} $
0 (0.8 - 1.1) 777 1,485,221 0.8 (0.7 - 1.0) 7 (15.1 - 16.4) 11,559 24,337,323 13.5 (13.0 - 14.0) 6 (28.7 - 30.4) 19,138 45,784,825 25.4 (24.9 - 25.9) 2 (30.4 - 31.9) 23,482 56,091,437 31.1 (30.6 - 31.7)
7 (15.1 – 16.4) 11,559 24,337,323 13.5 (13.0 – 14.0) 6 (28.7 – 30.4) 19,138 45,784,825 25.4 (24.9 – 25.9) 2 (30.4 – 31.9) 23,482 56,091,437 31.1 (30.6 – 31.7)
7 (15.1 - 16.4) 11,559 24,337,323 13.5 (13.0 - 14.0) 6 (28.7 - 30.4) 19,138 45,784,825 25.4 (24.9 - 25.9) 2 (30.4 - 31.9) 23,482 56,091,437 31.1 (30.6 - 31.7)
7 (15.1 - 16.4) 11,559 24,337,323 13.5 (13.0 - 14.0) 6 (28.7 - 30.4) 19,138 45,784,825 25.4 (24.9 - 25.9) 2 (30.4 - 31.9) 23,482 56,091,437 31.1 (30.6 - 31.7)
6 (28.7 - 30.4) 19,138 45,784,825 25.4 (24.9 - 25.9) 2 (30.4 - 31.9) 23,482 56,091,437 31.1 (30.6 - 31.7)
2 (30.4 - 31.9) 23,482 56,091,437 31.1 (30.6 - 31.7)
5 (22.7 – 24.4) 22,441 53,973,729 30 (29.3 – 30.6)
0.0
6 (13.0 - 14.2) 13,251 23,443,782 14.1 (13.6 - 14.6)
5 (17.8 – 19.2) 13,552 28,941,878 17.4 (17.0 – 17.8)
9 (66.9 - 68.9) 44,006 114,042,947 68.5 (67.8 - 69.3)
<0.0
1 (39.2 - 41.1) 49,767 120,018,819 66.3 (65.8 - 66.8)
9 (33.0 - 34.8) 9,841 19,527,421 10.8 (10.5 - 11.1)
0 (15.4 - 16.7) $3,653$ $7,554,553$ $4.2 (4.0 - 4.4)$
7 $(3.3 - 4.0)$ 5,100 12,438,530 6.9 $(6.6 - 7.1)$ 3 $(5.8 - 6.7)$ 8,577 21,408,143 11.8 $(11.5 - 12.2)$
5(3.0-0.7) $6,377$ $21,400,145$ 11.0 $(11.5-12.2)$
<0.0
2 (56.3 - 58.0) 33,437 93,725,613 51.8 (51.2 - 52.4)
6 (13.1 - 14.1) 4,726 6,855,932 3.8 (3.6 - 4.0)
8 (15.2 - 16.3) 11,792 18,569,346 10.3 (10.0 - 10.5)
8 (8.3 – 9.2) 21,567 47,016,303 26 (25.5 – 26.6)
7 (4.3 – 5.0) 5,298 14,646,413 8.1 (7.8 – 8.4)
<0.0
3 (25.6 – 27.0) 29,707 70,218,630 40.1 (39.6 – 40.6)
5 (33.7 - 35.2) = 25,753 60,551,964 34.6 (34.1 - 35.1)
$\begin{array}{c} 2(38.5-40.0) \\ 18,954 \\ 44,257,318 \\ 25.3 \\ (24.8-25.8) \\ 25.3 \\ (24.8-25.8) \\ \end{array}$
<0.0
8 (36.9 - 38.8) 38,663 93,585,403 52.7 (52.0 - 53.3)
8 (36.9 - 38.8) 38,663 93,585,403 52.7 (52.0 - 53.3) 2 (61.2 - 63.1) 36,965 84,132,548 47.3 (46.7 - 48.0)
8 (36.9 - 38.8) 2 (61.2 - 63.1) 38,663 93,585,403 52.7 (52.0 - 53.3) 36,965 84,132,548 47.3 (46.7 - 48.0) <0.0
8 (36.9 - 38.8) 38,663 93,585,403 52.7 (52.0 - 53.3) 2 (61.2 - 63.1) 36,965 84,132,548 47.3 (46.7 - 48.0)

Functional limitations		1			1	<0.0001
None	6,135 14,237,960	26.9 (26.1 – 27.6)	57.803	139,253,230	77 (76.6 – 77.4)	0.0001
Low	8,733 19,475,939	36.7 (35.9 – 37.5)	13,634	30,816,900	17 (16.7 – 17.4)	
Medium	4,788 9,526,547	18.0 (17.4 – 18.6)	3,190	6,382,296	3.5 (3.4 – 3.7)	
		· · · ·	,		, ,	
High	5,222 9,776,518	18.4 (17.8 – 19.1)	2,288	4,437,558	2.5 (2.3 – 2.6)	
Social Participation Restriction						<0.0001
No	21,788 47,139,819	88.8 (88.3 - 89.4)	75,154	177,242,388	98 (97.8 - 98.1)	
Yes	3,118 5,928,778	11.2 (10.6 – 11.7)	1,773	3,665,576	2 (1.9 – 2.2)	
Comorbid conditionsŧ						<0.0001
	5,046 11,848,042	22.3 (21.6 – 23.0)	44 306	107,330,656	59.3 (58.8 - 59.8)	-0.0001
1		29.5 (28.7 - 30.2)	20,233		25.9 (25.5 - 26.3)	
2	7,189 15,656,314	· · · · · ·	,	46,934,640	· · · · ·	
	6,035 12,584,614	23.7 (23.0 – 24.4)	8,033	17,778,531	9.8 (9.5 – 10.1)	
3+	6,682 13,071,575	24.6 (23.9 – 25.2)	4,428	9,048,422	5 (4.8 – 5.2)	
Serious Psychological Distress (SPD)						<0.0001
No	22,708 48,642,050	93.2 (92.8 - 93.7)	73,699	173,791,379	97.6 (97.4 - 97.7)	
Yes	1,762 3,534,393	6.8 (6.3 – 7.2)	2,066	4,313,184	2.4 (2.3 – 2.6)	
Depression*						<0.0001
Never	5,958 12,845,119	74.4 (73.2 – 75.6)	23,146	54 351 000	89.2 (88.7 – 89.7)	∼ 0.0001
		· · · ·	,	54,351,963	· · · · ·	
In the past 12 months	1,718 3,342,369	19.4 (18.2 – 20.5)	2,126	4,453,828	7.3 (6.9 – 7.7)	
Ever, but not in past 12 months	546 1,078,144	6.2 (5.6 – 6.9)	967	2,116,356	3.5 (3.2 – 3.8)	
Feelings interfered with life, past 30						
days						<0.0001
Not at all/a little	5,860 12,564,726	57.8 (56.6 - 59.1)	14,562	34,070,502	69.4 (68.6 – 70.2)	
Some/a lot	4,575 9,156,909	42.2 (40.9 – 43.4)	6,814	15,022,878	30.6 (29.8 – 31.4)	
Frequently anxious, past 12 months*						<0.0001
No	5,694 12,210,093	70.7 (69.5 – 71.9)	21,842	51,011,396	83.7 (83.1 – 84.3)	
Yes	2,531 5,058,347	29.3 (28.1 - 30.5)	4,403	9,926,523	16.3 (15.7 – 16.9)	
Frequently stressed, past 12 months*						<0.0001
No	5,068 10,692,819	62.0 (60.4 - 63.5)	19,279	44,870,212	73.6 (72.9 – 74.4)	
Yes	3,154 6,567,264	38.0 (36.5 – 39.6)	6,961	16,057,933	26.4 (25.6 – 27.1)	
Had fatigue/lack of energy, past 12						
months*						<0.0001
No	5,755 12,104,592	70.1 (68.8 – 71.4)	23,178	54,077,286	88.7 (88.2 - 89.2)	
Yes	2,467 5,160,070	29.9 (28.6 - 31.2)	3,072	6,872,635	11.3 (10.8 – 11.8)	
Health insurance						<0.0001
Not covered	2,127 4,530,401	8.5 (8.1 – 9.0)	15,881	35,102,452	19.5 (19.0 – 20.0)	0.0001
Any private	13,476 31,327,148	59.1 (58.1 - 60.0)		114,509,388	63.5 (62.8 - 64.1)	
Public only	9,297 17,178,644	32.4 (31.5 - 33.2)	15,340	30,766,567	17.1 (16.6 – 17.5)	
T ublic only	3,237 17,170,044	52. 4 (51.5 – 55.2)	13,340	50,700,507	17.1 (10.0 – 17.0)	
Total doctor office visits in the past year						~0.0004
	1 531 2 107 040	61 (57 65)	10 100	11 674 070		<0.0001
0	1,531 3,197,948	6.1 (5.7 – 6.5)	18,130	41,674,979	23.4 (22.9 - 23.9)	
1	2,147 4,695,763	9.0 (8.5 - 9.5)	14,909	35,945,588	20.1 (19.7 – 20.5)	
2 to 5	10,232 21,950,812	42.0 (41.1 – 42.8)	29,196	69,530,835	39 (38.5 - 39.4)	
6 to 12 13+	6,793 14,138,479 3 801 8 304 815	27.0 (26.3 - 27.8) 15.9 (15.3 - 16.5)	9,503 4,144	21,775,771 9,484,467	12.2 (11.9 – 12.5) 5.3 (5.1 – 5.5)	
10.	3,801 8,304,815	15.9 (15.3 – 16.5)	4,144	3,404,407	0.0 (0.1 - 0.0)	
Seen a mental health professional in						.0.05-
the past 12 months			.	· · · · · · · · · · · · · · · · · · ·		<0.0001
No	21,820 46,693,182	88.9 (88.4 - 89.4)		167,055,947	93.3 (93.0 – 93.5)	
Yes	2,828 5,837,892	11.1 (10.6 – 11.6)	5,420	12,089,321	6.7 (6.5 – 7.0)	
	_,					
Couldn't afford mental health	_,,					
Couldn't afford mental health counseling in the past year	_,,					<0.0001
	23,834 50,795,980	96.4 (96.1 – 96.8)	74,548	175,669,158	97.8 (97.7 – 97.9)	<0.0001

**Chi-square test

TABLE 2

Characteristics of adults with arthritis and Serious Psychological Distress (SPD) compared to adults with arthritis and no SPD from the 2011-2013 National Health Interview Survey (NHIS)

	Arthi	ritis and	SPD (n=1762)	Arthritis	Arthritis without SPD (n=22,708)		
Characteristic	Sample n	%	(95% CI)	Sample n	%	(95% CI)	P-value**
A							<0.0001
Age	005	00.0	(04.0.00.5)	0005	44.0		<0.0001
18-44	365	23.8	(21.0 – 26.5)	2985	14.8	(14.1 – 15.5)	
45-64	1,002		(53.5 – 59.8)	9544	45.8	(44.9 – 46.7)	
≥65	395	19.5	(17.1 – 21.9)	10179	39.4	(38.5 – 40.2)	
Sex							0.005
Male	565	36.3	(33.4 - 39.2)	8497	40.8	(40.0 - 41.7)	
Female	1,197		(60.8 - 66.6)	14211	59.2	(58.3 - 60.0)	
Race/ethnicity White, non-Hispanic	1,135	73 7	(71.0 – 76.5)	15959	77.8	(77.0 – 78.7)	<0.0001
Black, non-Hispanic	276	11.5	(9.6 – 13.3)	3647	11.1	(10.4 - 11.8)	
			, ,			,	
Hispanic	282	11.6	(9.8 – 13.4)	2164	7.5	(7.0 - 8.0)	
Asian, non-Hispanic	36	1.8	(1.1 – 2.6)	688	2.6	(2.3 – 2.9)	
Other	33	1.4	(0.8 – 1.9)	250	0.9	(0.7 – 1.1)	
Education							< 0.0001
Less than high school	577	30.0	(27.3 – 32.6)	3972	14.5	(13.9 – 15.1)	
High school diploma	525		(29.1 – 35.3)	6494	29.4	(28.5 - 30.3)	
Some college or Associates degree	517		(27.1 – 33.1)	6951	31.4	· ,	
5			· · ·			(30.6 - 32.2)	
College or greater	135	7.7	(6.2 – 9.2)	5213	24.8	(23.9 – 25.7)	
Income-to-poverty ratio							<0.0001
<1	731	36.9	(33.6 - 40.1)	3361	11.7	(11.2 – 12.2)	
1 to <2	474	27.9	(25.3 - 30.6)	4293	17.7	(17.0 - 18.4)	
≥ 2	459		(31.9 – 38.5)	12892	70.6	(69.7 – 71.6)	
Employment/work status	214	10.1		0000	40.0	(44.4.42.0)	<0.0001
Employed	314	18.1	(15.7 – 20.5)	8622	42.0	(41.1 – 43.0)	
Retired	257	14.3	(12.1 – 16.5)	8807	35.2	(34.3 – 36.1)	
Disabled	943	54.1	(50.7 – 57.5)	3247	13.1	(12.5 – 13.7)	
Unemployed	135	7.4	(5.8 – 8.9)	772	3.4	(3.1 – 3.7)	
Volunteer/NILF	113	6.1	(4.8 – 7.5)	1247	6.2	(5.8 – 6.7)	
Marital status							<0.0001
Married	530	41.5	(38.3 – 44.8)	10035	58.6	(57.7 – 59.5)	<0.0001
Widowed	257	11.2	. ,	4517	13.6	· ,	
			(9.4 – 13.0)			(13.1 – 14.1)	
Divorced/separated	604	26.8	(24.1 – 29.5)	4845	15.0	(14.4 – 15.5)	
Never married	269	12.6	(10.8 – 14.4)	2473	8.4	(7.9 – 8.8)	
Living with partner	98	7.9	(6.0 – 9.7)	795	4.5	(4.1 – 4.8)	
Body Mass Index (BMI)							< 0.0001
Under and normal weight (<25)	476	28.3	(25.5 - 31.2)	5847	26.0	(25.2 - 26.8)	
Overweight (25 to $<$ 30)	470		(24.8 - 29.9)	7608	35.1	(34.3 - 35.9)	
Obese (≥ 30)	771		(41.4 - 47.4)	8521	38.9	(38.1 – 39.7)	
Physical activity		o	(00.0.5.7)			(FO) - · · ·	<0.0001
Does not meet recommendations	1,428		(80.3 – 84.7)	13963	60.4	(59.4 – 61.4)	1
Meets recommendations	304	17.5	(15.3 – 19.7)	8356	39.6	(38.6 – 40.6)	
Self-reported health							< 0.0001
Poor/fair	1,287	72 1	(69.4 - 74.8)	6351	25.5	(24.7 – 26.3)	0.0001
Good	338		(09.4 - 74.8) (17.2 - 21.8)	7685	23.5 33.5	. ,	1
Very good/excellent	338 136	19.5 8.4	(17.2 - 21.8) (6.7 - 10.0)	8658	33.5 41.0	(32.7 – 34.3) (40.1 – 41.9)	
					-	(
Functional limitations				5000	00.0	(07.0 00 1)	<0.0001
None	89	5.5	(4.1 – 7.0)	5969	28.6	(27.8 – 29.4)	1
Low	271		(14.8 – 19.8)	8347	38.4	(37.5 – 39.2)	1
Medium	433	23.3	(20.5 – 26.1)	4250	17.5	(16.9 – 18.1)	1
inculari		20.0	(20:0 20:1)	.200		(1818 1811)	

Social Participation Restriction				1			<0.0001
No	1,080	61.4	(58.0 – 64.7)	20359	91.1	(90.7 – 91.6)	<0.0001
Yes	680		(35.3 – 42.0)	2327	8.9	(8.4 – 9.3)	
Comorbid condition count							<0.0001
	192	12.2	(10.2 – 14.2)	4768	23.1	(22.4 – 23.8)	~0.000 i
1	342		(18.1 – 23.1)	6712	30.1	(29.4 - 30.9)	
2	407		(20.5 – 25.5)	5522	23.8	(23.1 – 24.5)	
3+	820		(41.1 – 47.4)	5706	23.0	(22.3 – 23.6)	
Depression*							<0.0001
Never	91	18 7	(13.6 – 23.7)	5,813	78.1	(77.0 – 79.3)	<0.0001
In the past 12 months	398		(71.8 – 82.6)	1.297	15.5	(14.4 – 16.5)	
Ever, but not in past 12 months	25	4.1	(71.8 - 82.0) (2.2 - 6.0)	519	6.4	(14.4 - 10.3) (5.7 - 7.1)	
	20		(2.2 0.0)	010	0.1	(0.7 7.1)	
Feelings interfered with life, past 30 days	204	44.4	(0.4 42.4)	5004	07.0		<0.0001
Not at all/A little	201	11.1	(9.1 – 13.1)	5624	67.2	(66.0 - 68.4)	
Some/A lot	1,559	88.9	(86.9 – 90.9)	2965	32.8	(31.6 – 34.0)	
Frequently anxious, past 12 months*							<0.0001
No	49	10.3	(5.9 – 14.7)	5,608	74.9	(73.7 – 76.1)	
Yes	465	89.7	(85.3 – 94.1)	2,026	25.1	(23.9 – 26.3)	
Frequently stressed, past 12 months *							<0.0001
No	37	6.9	(2.9 - 10.9)	4995	65.7	(64.1 - 67.2)	
Yes	477	93.1	(89.1 – 97.1)	2638	34.3	(32.8 - 35.9)	
Had fatigue/lack of energy, past 12 months*							<0.0001
No	100	17.7	(13.0 – 22.5)	5612	73.7	(72.4 – 75.0)	
Yes	414		(77.5 – 87.0)	2019	26.3	(25.0 – 27.6)	
Health insurance							<0.0001
Any private	473	30.5	(27.6 – 33.5)	12813	61.5	(60.5 - 62.4)	~0.0001
Public only	993		(48.9 – 55.2)	8050	30.6	(29.8 – 31.5)	
Not covered	290		(15.1 – 19.7)	1800	7.9	(7.4 - 8.4)	
Number of office visits past 12 months							<0.0001
0	115	6.3	(4.9 – 7.7)	1390	6.1	(5.7 – 6.5)	
1	81	4.3	(3.1 – 5.4)	2045	9.4	(8.8 – 9.9)	
2 to 5	432		(21.5 – 26.5)	9678	43.4	(42.5 – 44.3)	
6 to 12	531		(27.6 – 33.6)	6164	26.8	(26.0 – 27.6)	
13+	568	34.8	(31.7 – 37.9)	3163	14.4	(13.8 – 15.0)	
Seen a mental health professional in the past 12 months							<0.0001
No	1,058		(57.6 – 64.0)	20449	91.0	(90.5 - 91.4)	
Yes	681	39.2	(36.0 - 42.4)	2093	9.0	(8.6 – 9.5)	
Couldn't afford mental health care, past 12 months							<0.0001
No	1,389	77.8	(75.2 – 80.5)	22070	97.8	(97.6 - 98.1)	
Yes	360	22.2	(19.5 – 24.8)	504	2.2	(1.9 – 2.4)	

*Sample sizes are lower because variable was only assessed in the 2012 NHIS **Chi-square test

TABLE 3

Unadjusted and adjusted associations of characteristics with seeing a mental health professional in the past 12 months among adults with arthritis and Serious Psychological Distress (SPD) from the 2011-2013 National Health Interview Survey (NHIS)

Characteristic	OR**	Unadjusted 95% C.I.	P-value [°]	Adju OR**	sted (Final Model) (95% C.I.	n=1727) P-value°
Ass (n-1720)			<0.0001			<0.0001
Age (n=1739)			<0.0001	4.5		<0.0001
18-44	4.1	(2.6 - 6.3)		4.5	(2.6 – 7.7)	
45-64	3.0	(2.1 – 4.3)		2.7	(1.7 – 4.3)	
≥65		1.0			1.0	
Sex (n=1739)			0.78			0.40
Male		1.0			1.0	
Female	1.0	(0.8 – 1.4)		1.2	(0.8 – 1.6)	
Race/ethnicity (n=1739)			0.06			0.06
White, non-Hispanic		1.0			1.0	
Black, non-Hispanic	0.9	(0.6 - 1.2)		0.7	(0.5 - 1.1)	
Hispanic	0.8	(0.6 – 1.2)		1.1	(0.8 – 1.5)	
Asian, non-Hispanic	0.2	(0.1 – 0.6)		0.2	(0.0 - 0.8)	
Other	1.0	(0.4 – 2.2)		0.8	(0.3 – 2.1)	
Highest education (n=1732)			<0.0001			<0.0001
Less than high school	0.4	(0.2 - 0.7)	-0.0001	0.3	(0.2 - 0.5)	-0.0001
High school diploma	0.4	(0.2 - 0.7) (0.4 - 1.0)		0.5	(0.2 - 0.0) (0.3 - 0.8)	
Some college or Associates degree	0.0	(0.4 - 1.0) (0.5 - 1.4)		0.6	(0.3 - 0.0) (0.4 - 1.1)	
	0.9	• • •		0.0	· · · ·	
College or greater		1.0			1.0	
Income-to-poverty ratio (n=1643)			0.99			
<1	1.0	(0.7 – 1.4)				
1 to <2	1.0	(0.7 – 1.4)				
≥ 2		1.0				
Employment status (n=1739)			<0.0001			
Employed		1.0			1.0	<0.0001
Retired	0.6	(0.4 – 1.0)		1.6	(0.9 – 2.8)	
Disabled	2.0	(1.4 – 2.9)		2.4	(1.6 – 3.5)	
Unemployed	1.9	(1.1 – 3.3)		2.1	(1.2 – 3.7)	
Volunteer/NILF	0.7	(0.4 – 1.4)		0.7	(0.4 – 1.4)	
Marital status (n=1735)			<0.001			
Married		1.0				
Widowed	0.6	(0.4 - 0.9)				
Divorced/separated	1.3	(1.0 - 1.8)				
Never married	1.7	(1.2 – 2.5)				
Living with partner	1.1	(0.6 - 1.8)				
Body Mass Index (BMI) (n=1702)			0.58			
Under and normal weight (<25)		1.0				
Overweight (25 to < 30)	1.0	(0.7 - 1.3)				
Obese (\geq 30)	1.1	(0.8 – 1.5)				
Physical activity (n=1717)			0.56			
Meets recommendations	1.1	(0.8 - 1.6)	0.00			
Does not meet recommendations		1.0				
Health perceptions (n=1738)			0.04			
Poor/fair	1.0	(1005)	0.04			
	1.6	(1.0 - 2.5)				
Good Very good/excellent	1.2	(0.7 – 2.1) 1.0				
			0.40			
Functional limitations (n=1736)		4.0	0.12			
None		1.0				
Low	0.6	(0.3 - 1.2)				
Medium	1.0	(0.5 – 1.8)				
High	0.8	(0.5 – 1.5)				

Social Participation Restriction (n=1739)			0.96			
No		1.0				
Yes	1.0	(0.8 – 1.3)				
Comorbid condition count (n=1738)			0.67			
0		1.0				
1	1.0	(0.6 - 1.6)				
2	0.8	(0.5 - 1.3)				
3+	0.9	(0.6 – 1.3)				
Depression* (n=501)			<0.0001			
Never		1.0				
In the past 12 months	4.3	(2.0 - 9.0)				
Ever, but not in past 12 months	0.9	(0.2 – 3.3)				
Feelings interfered with life (n=1737)			<0.0001			
Not at all/A little		1.0				
Some/A lot	3.4	(2.0 - 5.7)				
Frequently anxious, past 12 months* (n=501)			<0.001			
No		1.0				
Yes	6.0	(2.4 – 15.0)				
Frequently stressed, past 12 months * (n=501)			<0.001			
No		1.0				
Yes	11.2	(3.5 – 35.6)				
Had fatigue/lack of energy, past 12 months* (n=501)			0.15			
No		1.0				
Yes	1.6	(0.8 – 3.1)				
Health insurance (N=1733)			<0.01			<0.0001
Any private		1.0			1.0	
Public only	1.4	(1.0 – 1.9)		1.3	(0.9 – 1.8)	
Not covered	0.7	(0.5 – 1.1)		0.5	(0.3 – 0.7)	
Number of office visits past 12 months (n=1722)			<0.0001			
0		1.0				
1	1.3	(0.5 – 3.3)				
2 to 5	3.2	(1.8 – 5.7)				
6 to 12	3.8	(2.1 - 6.7)				
13+	7.7	(4.3 – 13.8)				
Couldn't afford mental health care, past 12 months						
(n=1739)			<0.001			0.02
No		1.0			1.0	
Yes	1.8	(1.3 – 2.5)		1.6	(1.1 - 2.4)	

*Sample sizes are lower because variable was only assessed in the 2012 NHIS **OR=odds ratio *Wald Chi-Square

APPENDIX A: Variable Definitions and Recodes

NHIS Variable Name			Original Values	New Values
PSU_P	PSU_P	Pseudo-PSU for public	1 - 2	NA
		use file variance		
		estimation		
STRAT_P	STRAT_P	Pseudo-stratum for	1 - 300	NA
		public use file variance		
		estimation		
AGE_P	AGE_N	age in years	0 - 85	NA
SEX	SEX_N	sex	1 Male	1 Male
	_		2 Female	2 Female
ARTH1	ARTH1_N	Have you EVER been told	1 Yes	0 No
	_	by a doctor or other	2 No	1 Yes
		health professional that	7 Refused	
		you have some form of	8 Not ascertained	
		, arthritis, rheumatoid	9 Don't know	
		arthritis, gout, lupus, or		
		fibromyalgia?		
ANXNWYR	ANXFREQ_N	Frequently anxious, past	1 Yes	0 No
		12 months	2 No	1 Yes
			7 Refused	
			8 Not ascertained	
			9 Don't know	
ASTRESYR	STRESFREQ_N	Frequently stressed, past		0 No
		12 months	2 No	1 Yes
			7 Refused	
			8 Not ascertained	
			9 Don't know	
ADEPRSEV	DEPREV_N	Ever told you have	1 Yes	0 No
ADEFIGEV	DEFREV_N	depression	2 No	1 Yes
		depression	7 Refused	1163
			8 Not ascertained	
			9 Don't know	
ADEPRSYR		Had depression, past 12	1 Yes	0 No
ADEPRSTR	DEPRYR_N	months	2 No	1 Yes
		montris		1 165
			7 Refused	
			8 Not ascertained	
EATLOVD.			9 Don't know	
FATIGYR	FATIGUE_N	Had fatigue/lack of	1 Yes	0 No
		energy, past 12 months	2 No	1 Yes
			7 Refused	
			8 Not ascertained	
<u></u>			9 Don't know	5 CDD N
SAD	SAD_R (part of SPD_N)	So sad nothing cheers	1 ALL of the time	For SPD_N:
		you up, past 30 days	2 MOST of the time	0 No
			3 SOME of the time	1 Yes
			4 A LITTLE of the	
			5 NONE of the time	
			7 Refused	
			8 Not ascertained	
NED/ 0112			9 Don't know	5
NERVOUS	NERVOUS_R (part of	How often felt nervous,	1 ALL of the time	For SPD_N:
	SPD_N)	past 30 days	2 MOST of the time	0 No
			3 SOME of the time	1 Yes
			4 A LITTLE of the	
			5 NONE of the time	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
RESTLESS	RESTLESS_R (part of	How often	1 ALL of the time	For SPD_N:
	SPD_N)	restless/fidgety, past 30	2 MOST of the time	0 No
		da ys	3 SOME of the time	1 Yes
			4 A LITTLE of the	
			5 NONE of the time	
		1	7 Refused	
			/ neruseu	
			8 Not ascertained	

HOPELESS	HOPELESS_R (part of	How often felt hopeless,	1 ALL of the time	For SPD-N:
	SPD_N)	past 30 days	2 MOST of the time	0 No
		,,.	3 SOME of the time	1 Yes
			4 A LITTLE of the	
			5 NONE of the time	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
EFFORT	FFFORT D (nort of	How often falt eventhing		For SPD_N:
EFFORT	EFFORT_R (part of	How often felt everything		0 No
	SPD_N)	was an effort, past 30	2 MOST of the time	
		days	3 SOME of the time	1 Yes
			4 A LITTLE of the	
			5 NONE of the time	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
WORTHLS	WORTHLS_R (part of	How often felt worthless,		For SPD_N:
	SPD_N)	past 30 days	2 MOST of the time	0 No
			3 SOME of the time	1 Yes
			4 A LITTLE of the	
			5 NONE of the time	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
MHAMTMO		Feelings interfered	1 A lot	
		w/life, past 30 days	2 Some	
			3 A little	
			4 Not at all	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
AHCAFYR2	COUNSEL_N	Couldn't afford mental	1 Yes	0 No
		health care/counseling,	2 No	1 Yes
		past 12 months	7 Refused	1,00
			8 Not ascertained	
			9 Don't know	
AHCSYR1	MHPROF_N	Seen/talked to mental	1 Yes	0 No
Anomi		health professional, past		1 Yes
		12 months	7 Refused	1103
			8 Not ascertained	
	OFFTOT N	Total number of office	9 Don't know	0:0
AHCNOYR2	OFFTOT_N		00 None	0: 0
		visits, past 12 m	011	1: 1
			02 2-3	2: 2-5
			03 4-5	3: 6-12
			04 6-7	4: 13+
			05 8-9	
			06 10-12	
			07 13-15	
			08 16 or more	
			97 Refused	
			98 Not ascertained	
			99 Don't know	
NOTCOV	part of INSUR_N	NHIS sample adult: no	1 Not covered	For INSUR_N:
		health insurance	2 Cove red	1 Not covered
			7 Refused	2 Any private
			8 Not ascertained	3 Public only
			9 Don't know	
PRIVATE	part of INSUR_N	NHIS sample	1 Yes, information	For INSUR_N:
I NIVAIL		adult:private insurance	2 Yes, but no information	1 Not covered
			3 No	2 Any private
			7 Refused	
				3 Public only
			8 Not ascertained	
		1	9 Don't know	

HISCODI3	RACE_N	Race/ethnicity	1 Hispanic	1 White, non-Hispanic
			2 Non-Hispanic White	2 Black, non-Hispanic
			3 Non-Hispanic Black	3 Hispanic
			4 Non-Hispanic Asian	4 Asian, non-Hispanic
			5 Non-Hispanic All other race	5 Other
			groups	
EDUC1	EDUC1_N	highest level of	00 Never attended/kindergarten	1 Less than high school
		education	only	2 High school diploma and some
			01 1st grade	college
			02 2nd grade	3 Completed college or greater
			03 3rd grade	
			04 4th grade	
			05 5th grade	
			06 6th grade	
			07 7th grade	
			08 8th grade	
			-	
			09 9th grade	
			10 10th grade	
			11 11th grade	
			12 12th grade, no diploma	
			13 GED or equivalent	
			14 High School Graduate	
			15 Some college, no degree	
			16 Associate degree:	
			occupational, technical, or	
			vocational program	
			17 Associate degree: academic	
			program	
			18 Bachelor's degree (Example:	
			BA, AB, BS, BBA)	
			19 Master's degree (Example: MA,	
			MS, MEng, MEd, MBA)	
			20 Professional School degree	
			(Example: MD, DDS, DVM, JD)	
			21Doctoral degree (Example: PhD,	
			EdD)	
			96 Child under 5 years old	
			97 Refused	
			98 Not ascertained	
			99 Don't know	
	COMORB_N		39 DOILT KIIOW	0: 0
	COMORB_N			1:1
1				
				2: 2
			1 //	3: 3+
HYPEV	HYPEV_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had Hypertension	2 No	0: 0
			7 Refused	1: 1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
CHDEV	HEARTDIS_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had CHD	2 No	0: 0
			7 Refused	1: 1
l			8 Not ascertained	2: 2
			9 Don't know	3: 3+
ANGEV	HEARTDIS N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had angina	2 No	0: 0
			7 Refused	1: 1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
MIEV	HEARTDIS_N (part of	EVER been told by a	1 Yes	5: 5+ For COMORB_N:
	COMORB N)	doctor had heart attack	2 No	0: 0
	CONORB_N)	uocior nau neart attack		
			7 Refused	1:1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+

			4	
HRTEV	HEARTDIS_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had any other heart disease	2 No	0:0
		heart disease	7 Refused	1:1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
STREV	STREV_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had a stroke	2 No	0: 0
			7 Refused	1: 1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
EPHEV	PULMCOND_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had emphysema	2 No	0: 0
			7 Refused	1: 1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
AASMEV	PULMCOND_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had asthma	2 No	0: 0
			7 Refused	1:1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
ULCEV	ULCEV_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had an ulcer	2 No	0: 0
			7 Refused	1: 1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
CANEV	CANEV N (part of	EVER been told by a	1 Yes	For COMORB N:
	COMORB_N)	doctor had cancer	2 No	0:0
	_ /		7 Refused	1:1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
DIBEV	DIBEV_N (part of	EVER been told by a	1 Yes	For COMORB_N:
	COMORB_N)	doctor had diabetes	2 No	0:0
			7 Refused	1:1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
CBRCHYR	PULMCOND_N (part of	Told by a doctor had	1 Yes	For COMORB_N:
CBRCHTR	COMORB_N)	chronic bronchitis past 12		0: 0
		mo	7 Refused	1:1
			8 Not ascertained	2: 2
			9 Don't know	3: 3+
KIDWKYR	KIDWKYR_N (part of	PAST 12 MONTHS told by	1 Yes	For COMORB_N:
KID WKIN	COMORB N)	doctor had weak or	2 No	0:0
			7 Refused	1: 1
		failing kidneys	8 Not ascertained	2: 2
				3: 3+
		DAGE 12 MONITUS to let have	9 Don't know	
LIVYR	LIVYR_N (part of	PAST 12 MONTHS told by	1 Yes	For COMORB_N:
	COMORB_N)	doctor had liver	2 No	0:0
		condition	7 Refused	1:1
			8 Not ascertained	2:2
			9 Don't know	3:3+
BMI	BMI_N	Body Mass Index (BMI);	0001-9994 00.01-99.94	1 Under and normal weight (<25)
		calculated using in-	9995 99.5+	2 Overweight (25 to <30)
		house version of height	9999 Unknown	3 Obese (>=30)
		and weight variables;		
		BMI=[weight(kg)/height(
		m2)] rounded to two		
		decimal places		
R_MARITL	MARITAL_N	Now married, widowed,	0 Under 14 years	1 Married
		divorced, separated,	1 Married - spouse in household	2 Widowed
		never married, or living	2 Married - spouse not in	3 Divorced/separated
		with a partner	household	4 Never married
			3 Married - spouse in household	5 Living with partner
			unknown	
			4 Widowed	
			5 Divorced	
			6 Separated	
			7 Never married	
1		1		1
			8 living with northor	
			8 Living with partner 9 Unknown marital status	

DAT CATO	INCOME N	Dette effert 1	01 Uz do x 0 50	11
RAT_CAT2	INCOME_N	Ratio of family income to		1: <1
		the poverty threshold	02 0.50-0.74	2: 1 to <2 3: >=2
			03 0.75-0.99	3: >=2
			04 1.00-1.24	
			05 1.25-1.49	
			06 1.50-1.74	
			07 1.75-1.99	
			08 2.00-2.49	
			09 2.50-2.99	
			10 3.00-3.49	
			11 3.50-3.99	
			12 4.00-4.49	
			13 4.50-4.99	
			14 5.00 and over	
			15 Less than 1.00 (no further	
			detail)	
			16 1.00-1.99 (no further detail)	
			17 2.00 and over (no further detail)	
			96 Undefinable	
			99 Unknown	
DOINGLWA	Part of EMPLOY_N	Corrected employment	1 Working for pay at a job or	For EMPLOY_N:
		status last week	business	1 Employed
			2 With a job or business but not	2 Retired
			at work	3 Disabled
			3 Looking for work	4 Unemployed
			4 Working, but not for pay, at a	5 Volunteer/NILF
			family-owned job or business	
			5 not working at a job or business	
			and not looking for work	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
WHYNOWKA	Dart of EMDLOV N	Main reason did not	01 Taking care of house or family	For EMPLOY N:
WHYNOWKA	Part of EMPLOY_N			For EMPLOY_N:
		work last week	02 Going to school	1 Employed
			03 Retired	2 Retired
			04 On a planned vacation from	3 Disabled
			work	4 Unemployed
			05 On family or maternity leave	5 Volunteer/NILF
			06 Temporarily unable to work for	
			health reasons	
			07 Have job/contract and off-	
			07 Have job/contract and off- season	
			07 Have job/contract and off- season 08 On layoff	
			07 Have job/contract and off- season 08 On layoff 09 Disabled	
			07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other	
			07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused	
			07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained	
			07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know	
FLWALK	Part of FUNCLIM_N		07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult	For FUNCLIM_N:
FLWALK	Part of FUNCLIM_N	mile without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult	1 None
FLWALK	Part of FUNCLIM_N		07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult	1 None 2 Low
FLWALK	Part of FUNCLIM_N	mile without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult	1 None 2 Low 3 Medium
FLWALK	Part of FUNCLIM_N	mile without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all	1 None 2 Low
FLWALK	Part of FUNCLIM_N	mile without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity	1 None 2 Low 3 Medium
FLWALK	Part of FUNCLIM_N	mile without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all	1 None 2 Low 3 Medium
FLWALK	Part of FUNCLIM_N	mile without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained	1 None 2 Low 3 Medium
		mile without special equipment	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know	1 None 2 Low 3 Medium 4 High
FLWALK	Part of FUNCLIM_N	mile without special equipment How difficult to climb 10	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult	1 None 2 Low 3 Medium
		mile without special equipment	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know	1 None 2 Low 3 Medium 4 High
		mile without special equipment How difficult to climb 10	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult	1 None 2 Low 3 Medium 4 High For FUNCLIM_N:
		mile without special equipment How difficult to climb 10 steps without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult 1 Only a little difficult 1 Only a little difficult	1 None 2 Low 3 Medium 4 High For FUNCLIM_N: 1 None
		mile without special equipment How difficult to climb 10 steps without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult	1 None 2 Low 3 Medium 4 High For FUNCLIM_N: 1 None 2 Low
		mile without special equipment How difficult to climb 10 steps without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 2 Somewhat difficult 3 Very difficult 3 Very difficult 3 Very difficult	1 None 2 Low 3 Medium 4 High For FUNCLIM_N: 1 None 2 Low 3 Medium
		mile without special equipment How difficult to climb 10 steps without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all	1 None 2 Low 3 Medium 4 High For FUNCLIM_N: 1 None 2 Low 3 Medium
		mile without special equipment How difficult to climb 10 steps without special	07 Have job/contract and off- season 08 On layoff 09 Disabled 10 Other 97 Refused 98 Not ascertained 99 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity 7 Refused 8 Not ascertained 9 Don't know 0 Not at all difficult 1 Only a little difficult 2 Somewhat difficult 3 Very difficult 4 Can't do at all 6 Do not do this activity	1 None 2 Low 3 Medium 4 High For FUNCLIM_N: 1 None 2 Low 3 Medium

FLSTAND Part of FUNCLIM_N How difficult to stand 2 0 Not at all difficult For FUNCLIM_N: hours without special equipment 2 Somewhat difficult 2 Low 3 Very difficult 3 Medium 4 Can't do at all 6 Do not do this activity 7 Refused 4 High FLSIT Part of FUNCLIM_N How difficult to sit 2 0 Not at all difficult 1 None FLSIT Part of FUNCLIM_N How difficult to sit 2 0 Not at all difficult 2 Low FLSIT Part of FUNCLIM_N How difficult to sit 2 0 Not at all difficult 3 Medium 4 Can't do at all 6 Do not do this activity 7 Refused 3 Medium 4 High FLSTOOP Part of FUNCLIM_N How difficult to stoop, bend, or kneel without special equipment 0 Not at all difficult 1 None FLREACH Part of FUNCLIM_N How difficult to reach over head without special equipment 0 Not at all difficult 1 None FLREACH Part of FUNCLIM_N How difficult to reach over head without special equipment 1 Only a little difficult 1 None FLGRASP Part of FUNCLIM_N How difficult to reach over head without special equipment 1 Only a little difficult 1 None FLGRRSP		_	hours without special	1 Only a little difficult	_
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3 Very difficult 3 Medium					
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6 Do not do this activity					
7 Refused				-	
8 Not ascertained					
9 Don't know					
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special equipment 2 Somewhat difficult 2 Low			• •		
3 Very difficult 3 Medium			daibine inc		
4 Can't do at all 4 High					
6 Do not do this activity					
7 Refused				-	
8 Not ascertained					
9 Don't know					
AFLHC33_ FATIGUE_N Fatigue/tiredness/weakn 1 Mentioned 0 No	HC33 FAT	TIGUE N			0 No
ess causes difficulty with 2 Not mentioned 1 Yes			•		
Less causes annearty with 2 Not mentioned 11es					1,03
activity 7 Refused					
activity 7 Refused 8 Not ascertained					

PHSTAT	HPERCEP_N	Reported health status	1 Excellent	1 Poor/fair
	-		2 Very good	2 Good
			3 Good	3 Very good/excellent
			4 Fair	
			5 Poor	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
FLSHOP	SHOPLIM (part of	How difficult to go out to	0 Not at all difficult	For SOCREST:
	SOCREST)	events without special	1 Only a little difficult	0 No
		equipment	2 Somewhat difficult	1 Yes
			3 Very difficult	
			4 Can't do at all	
			6 Do not do this activity	
			7 Refused	
			8 Not ascertained	
			9 Don't know	
FLSOCL	SOCLIM (part o	How difficult to	0 Not at all difficult	For SOCREST:
	SOCREST)	participate in social	1 Only a little difficult	0 No
		activities without special		1 Yes
		equipment	3 Very difficult	
			4 Can't do at all	
			6 Do not do this activity	1
			7 Refused	1
			8 Not ascertained	
			9 Don't know	
	PHYSACT_N			0 No
				1 Yes
MODFREQW	part of PHYSACT_N	Freq light/moderate	00 Less than once per week	For PHYSACT_N:
		activity (time per wk)	01-28 1-28 times per week	0 Does not meet recommendations
			95 Never	1 Meets recommendations
			96 Unable to do vigorous activity	
			97 Refused	
			98 Not ascertained	
MODMIN	nort of DUVCACT N	Duration light/moderate	99 Don't know	
MODIMIN	part of PHYSACT_N	Duration light/moderate	010-720 10-720 minutes	For PHYSACT_N:
		activity (in minues)	997 Refused 998 Not ascertained	0 Does not meet recommendations
			999 Don't know	1 Meets recommendations
MODNO	part of PHYSACT_N	Freg moderate activity: #	000 Never	For PHYSACT N:
MODINO	part of PHISACI_N	of units	001-995 1-995 time(s)	0 Does not meet recommendations
		oruma	996 Unable to do this type activity	
			997 Refused	
			998 Not ascertained	
			999 Don't know	
MODTP	part of PHYSACT_N	Freq moderate activity:	0 Never	For PHYSACT_N:
		time units	1 Per day	0 Does not meet recommendations
			2 Per week	1 Meets recommendations
			3 Per month	
			4 per year	1
			6 Unable to do this activity	
			7 Refused	1
			8 Not ascertained	1
			9 Don't know	1
VIGFREQW	part of PHYSACT_N	Freq vigorous activity	00 Less than once per week	For PHYSACT_N:
-		(times per week)	01-28 1-28 times per week	0 Does not meet recommendations
		, , ,	95 Never	1 Meets recommendations
			96 Unable to do vigorous activity	
			97 Refused	1
			98 Not ascertained	1
			99 Don't know	1
VIGMIN	part of PHYSACT_N	Duration vigorous activity		For PHYSACT_N:
		(in minutes)	997 Refused	0 Does not meet recommendations
		, ,	998 Not ascertained	1 Meets recommendations
			999 Don't know	
VIGNO	part of PHYSACT_N	Freq vigorous activity: #	000 Never	For PHYSACT_N:
		of units	001-995 1-995 time(s)	0 Does not meet recommendations
			996 Unable to do this type activity	
			997 Refused	
			998 Not ascertained	1
			SSS NOT ASCELLATING A	
			999 Don't know	28

VIGTP	part of PHYSACT_N	Freq vigorous activity:	0 Never	For PHYSACT_N:
		time unites	1 Per day	0 Does not meet recommendations
			2 Per week	1 Meets recommendations
			3 Per month	
			4 per year	
			6 Unable to do this activity	
			7 Refused	
			8 Not ascertained	
			9 Don't know	

APPENDIX B: Other Models

Unadjusted and adjusted associations with seeing a mental health professional in the past 12 months among adults with arthritis and Serious Psychological Distress (SPD) from the 2011-2013 National Health Interview Survey (NHIS) – OTHER MODELS

Characteristic	L L	Jnadjusted	Adjusted Model 1		Adjusted Model 2	
				ll variables		, sex, race
	OR**	95% C.I.	OR**	95% C.I.	OR**	95% C.I.
Age						
18-44	4.1	(2.6 - 6.3)	4.1	(2.3 – 7.4)	4.1	(2.6 - 6.4)
45-64	3.0	(2.1 – 4.3)	2.6	(1.6 – 4.2)	3.0	(2.1 – 4.3)
≥65		1.0		1.0		1.0
Sex						
Male		1.0		1.0		1.0
Female	1.0	(0.8 – 1.4)	1.1	(0.8 – 1.6)	1.1	(0.8 – 1.5)
Race/ethnicity						
White, non-Hispanic		1.0		1.0		1.0
Black, non-Hispanic	0.9	(0.6 - 1.2)	0.7	(0.4 - 1.0)	0.8	(0.6 – 1.1)
Hispanic	0.8	(0.6 - 1.2)	1.1	(0.7 – 1.5)	0.9	(0.6 – 1.2)
Asian, non-Hispanic	0.2	(0.1 – 0.6)	0.2	(0.1 – 0.8)	0.2	(0.1 – 0.8)
Other	1.0	(0.4 – 2.2)	0.9	(0.3 – 2.1)	0.9	(0.4 – 2.0)
Highest education						
Less than high school	0.4	(0.2 - 0.7)	0.3	(0.2 – 0.5)		
High school diploma	0.6	(0.4 - 1.0)	0.5	(0.3 – 0.8)		
Some college or Associates degree	0.9	(0.5 – 1.4)	0.7	(0.4 – 1.2)		
College or greater		1.0		1.0		
Employment status						
Employed		1.0		1.0		
Retired	0.6	(0.4 - 1.0)	1.6	(0.9 - 3.0)		
Disabled	2.0	(1.4 – 2.9)	2.4	(1.6 – 3.5)		
Unemployed	1.9	(1.1 – 3.3)	2.1	(1.2 – 3.6)		
Volunteer/NILF	0.7	(0.4 - 1.4)	0.7	(0.4 - 1.5)		
Marital status						
Married		1.0		1.0		
Widowed	0.6	(0.4 - 0.9)	0.9	(0.6 - 1.5)		
Divorced/separated	1.3	(1.0 – 1.8)	1.2	(0.9 - 1.7)		
Never married	1.7	(1.2 – 2.5)	1.5	(0.9 - 2.3)		
Living with partner	1.1	(0.6 - 1.8)	0.9	(0.5 – 1.7)		
Health insurance						
Any private		1.0		1.0		
Public only	1.4	(1.0 – 1.9)	1.2	(0.8 – 1.8)		
Not covered	0.7	(0.5 – 1.1)	0.5	(0.3 – 0.7)		
Number of office visits past 12 months						
0		1.0				
1	1.3	(0.5 – 3.3)				
2 to 5	3.2	(1.8 – 5.7)				
6 to 12	3.8	(2.1 – 6.7)				
13+	7.7	(4.3 – 13.8)				
Couldn't afford mental health care, past 12 months						
No		1.0		1.0		
Yes	1.8	(1.3 – 2.5)	1.7	(1.1 – 2.5)		

*Only assessed in the 2012 NHIS survey

Characteristic	L	Jnadjusted	Adjusted Model 3			
	0.0**		Demographics - OR**	insurance +	counsel_N + insura	
-	OR**	95% C.I.	OR^^			95% C.I.
Age						(0.0.7.0)
18-44	4.1	(2.6 - 6.3)	4.4			(2.8 – 7.0) (2.2 – 4.7)
45-64	3.0	(2.1 – 4.3)	3.2		1.0	(2.2 - 4.7)
≥65		1.0			1.0	
Sex						
Male		1.0			1.0	
Female	1.0	(0.8 – 1.4)	1.1			(0.8 – 1.5)
Race/ethnicity						
White, non-Hispanic		1.0			1.0	
Black, non-Hispanic	0.9	(0.6 - 1.2)	0.8			(0.5 – 1.1)
Hispanic	0.8	(0.6 – 1.2)	0.9			(0.6 – 1.2)
Asian, non-Hispanic	0.2	(0.1 – 0.6)	0.3			(0.1 – 0.8)
Other	1.0	(0.4 – 2.2)	0.9			(0.4 – 2.0)
Highest education						
Less than high school	0.4	(0.2 - 0.7)				
High school diploma	0.6	(0.4 - 1.0)				
Some college or Associates degree	0.9	(0.5 – 1.4)				
College or greater		1.0				
Employment status						
Employed		1.0				
Retired	0.6	(0.4 - 1.0)				
Disabled	2.0	(1.4 – 2.9)				
Unemployed	1.9	(1.1 – 3.3)				
Volunteer/NILF	0.7	(0.4 – 1.4)				
Marital status						
Married		1.0				
Widowed	0.6	(0.4 - 0.9)				
Divorced/separated	1.3	(1.0 – 1.8)				
Never married	1.7	(1.2 – 2.5)				
Living with partner	1.1	(0.6 - 1.8)				
Health insurance						
Any private		1.0			1.0	
			COUNSEL_N = 1		COUNSEL_N = 0	
Public only	1.4	(1.0 – 1.9)	1.0 (0.5-2.3)		1.6 (1.1-2.2)	
Not covered	0.7	(0.5 – 1.1)	0.4 (0.2-0.9)		0.5 (0.3-0.9)	
Number of office visits past 12 months						
0		1.0				
1	1.3	(0.5 - 3.3)				
2 to 5	3.2	(1.8 – 5.7)				
6 to 12	3.8	(2.1 – 6.7)				
13+	7.7	(4.3 – 13.8)				
Couldn't afford mental health care, past 12 months						
No		1.0		Dublic	1.0	
N	4.0	(4.0	Not covered		Any private	
Yes *Only assessed in the 2012 NHIS survey	1.8	(1.3 – 2.5)	1.8 (0.9-3.5)	1.5 (0.9-2.6)	2.3 (1.2-4.3)	

White, non-Hispanic 1.0 1.0 1.0 1.0 Black, non-Hispanic 0.9 0.6 - 1.2) 0.8 0.5 - 1.1) 0.8 0.07 - 1.4) Asian, non-Hispanic 0.2 0.1 - 0.6) 0.2 0.1 - 0.7) 0.2 0.0 - 7.1) Asian, non-Hispanic 0.2 0.1 - 0.6) 0.2 0.1 - 0.7) 0.2 0.0 - 0.7) Other 1.0 0.4 - 2.2) 0.8 0.3 - 1.8) 0.9 0.4 - 2.2) Highest education	Characteristic	ι	Jnadjusted	Adjusted Model 4		Adjusted Model 5		
Age Interview Defense Defense Defense Defense Defense 18-44 4.1 $(2, 6 - 6.3)$ 5.0 $(3, 2 - 7.8)$ 4.0 $(2, 5 - 6.2)$ 265 3.0 $(2, 1 - 4.3)$ 3.5 $(2, 4 - 6.1)$ 2.9 $(2, 2 - 4.2)$ Sex Male 1.0 $(0, 8 - 1.4)$ 1.0 1.0 1.0 Sex Male 1.0 $(0, 8 - 1.4)$ 1.1 $(0, 8 - 1.5)$ 1.1 $(0, 8 - 1.5)$ Racolethnicity 1.0 1.0 1.0 1.0 1.0 1.0 Stack, non-Hispanic 0.8 $(0, 6 - 1.2)$ 0.8 $(0, 6 - 1.2)$ 0.8 $(0, 6 - 1.2)$ 0.9 $(0, 4 - 2.2)$ 0.8 $(0.3 - 1.8)$ 0.9 $(0, 4 - 2.2)$ Highest education 0.4 $(0, 2 - 0.7)$ 1.0 0.4 $(0, 2 - 0.7)$ 0.5 0.2 $(0, 7 - 1.4)$ 0.5 0.2 0.7 $(0, 6 - 1.2)$ 0.5 0.4 $(0.2 - 0.7)$ 0.5 0.5				_	aphics + insurance		phics + education	
13-44 4.1 $(2, 2-6, 3)$ 5.0 $(2, 2-7, 8)$ 4.0 $(2, 5-6, 2)$ 45-64 3.0 $(2, 1-4, 3)$ 3.5 $(2, 2-7, 8)$ 4.0 $(2, 5-6, 2)$ 486 1.0 1.0 1.0 1.0 1.0 1.0 1.0 Sox 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 Famale 1.0 1.0 0.8 $(0, 5-1, 1)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.8 $(0, 5-1, 2)$ 0.9 $(0, 5-1, 2)$ 0.8 $(0, 3-1, 8)$ 0.9 $(0, 4-2, 2)$ 0.8 $(0, 3-1, 8)$ 0.9 $(0, 4-2, 2)$ 0.8 $(0, 3-1, 8)$ 0.9 $(0, 4-2, 2)$ 0.8 $(0, 3-1, 8)$ 0.9 $(0, 4-2, 2)$ 0.8 $(0, 3-1, 8)$ 0.7 $(0, 3-0, 9)$ 0.5 $(0, 3-0, 9)$ 0.5 $(0, 3$		OR**	95% C.I.	OR**	95% C.I.	OR**	95% C.I.	
45-64 a85 3.0 (2.1 - 4.3) 3.5 (2.4 - 5.1) 2.9 (2.0 - 4.2) a86 1.0 1.0 1.0 1.0 1.0 1.0 Sex Male 1.0 (0.8 - 1.4) 1.1 (0.8 - 1.5) 1.1 0.8 Race/ethnicity Winte, nor-Hispanic 1.0 1.0 1.0 1.0 1.1 (0.8 - 1.5) 0.8 (0.5 - 1.1) 0.8 (0.6 - 1.2) 0.8 (0.5 - 1.1) 0.8 (0.7 - 1.4) 0.4 (0.7 - 1.4) 0.2 (0.1 - 0.5) 0.2 (0.1 - 0.7) 0.9 (0.6 - 1.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) 1.0 0.4 (0.2 - 0.7) 0.4 (0.2 - 0.7) 0.4 (0.2 - 0.7) 0.9 (0.4 - 1.2) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	-							
265 1.0 1.0 1.0 1.0 1.0 Sex Male Female 1.0 1.0 1.0 1.0 1.0 1.0 Recodennicity White, non-Hispanic 0.9 (0.6 - 1.2) 0.8 (0.5 - 1.1) 0.8 (0.6 - 1.2) Black, non-Hispanic 0.9 (0.6 - 1.2) 0.8 (0.5 - 1.1) 0.8 (0.6 - 1.2) Asian, non-Hispanic 0.2 (0.1 - 0.6) 0.2 (0.1 - 0.7) 0.2 (0.0 - 0.7) Other 1.0 (0.6 - 1.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) Highest ducation 0.2 (0.1 - 0.6) 0.2 (0.1 - 0.7) 0.2 (0.0 - 0.7) Less than high achool 0.4 (0.2 - 0.7) 0.8 (0.3 - 1.8) 0.5 (0.3 - 0.9) Some college or Associates degree 0.6 (0.4 - 1.0) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.5 (0.4 - 1.9) 0.5 (0.4 - 0.9) 0.5 (0.4 - 0.9) 0.5 (0.5 - 0.3) 1.0							,	
Sex Male 1.0 1		3.0		3.5		2.9		
Male 1.0 1.0 1.0 1.0 1.0 1.0 1.0 Female 1.0 $(0.8 - 1.4)$ 1.1 $(0.8 - 1.5)$ 1.1 $(0.8 - 1.5)$ Race/ethnicity 0.9 $(0.6 - 1.2)$ 0.8 $(0.5 - 1.1)$ 0.8 $(0.6 - 1.2)$ Black, non-Hispanic 0.8 $(0.6 - 1.2)$ 0.8 $(0.5 - 1.1)$ 0.8 $(0.6 - 1.2)$ Alain, non-Hispanic 0.2 $(0.1 - 0.6)$ 0.2 $(0.1 - 0.6)$ 0.2 $(0.1 - 0.1)$ 0.2 $(0.0 - 0.7)$ Alain, non-Hispanic 0.2 $(0.1 - 0.6)$ 0.2 $(0.1 - 0.2)$ $(0.2 - 0.7)$ $(0.2 - 0.7)$ Alain, non-Hispanic 0.4 $(0.2 - 0.7)$ $(0.4 - 0.2)$ 0.8 $(0.3 - 1.8)$ 0.9 $(0.4 - 1.2)$ Some college of Associates degree 0.9 $(0.5 - 1.4)$ 0.5 $(0.3 - 0.9)$ 1.0 1.0 1.0 Retired 0.6 $(0.4 - 1.0)$ 0.5 $(0.2 - 0.7)$ $(0.4 - 1.2)$ 0.6 $(0.4 - 0.9)$ 0.7 $(0.4 - 1.2)$ 0.6 0.4 0.6 0.4 0.6 <	≥65		1.0		1.0		1.0	
Female 1.0 (0.8 - 1.4) 1.1 (0.8 - 1.5) 1.1 (0.8 - 1.5) Race/ethnicity 1.0 1.0 1.0 1.0 1.0 1.0 Back, non-Hispanic 0.9 (0.6 - 1.2) 0.8 (0.5 - 1.1) 0.8 (0.6 - 1.2) Hispanic 0.9 (0.4 - 2.2) 0.8 (0.5 - 1.2) 0.2 (0.1 - 0.7) 0.2 (0.0 - 0.7) Other 1.0 (0.4 - 2.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) Highes clucation 0.4 (0.2 - 0.7) 0.8 (0.3 - 0.8) 0.7 (0.4 - 0.2) College or greater 0.4 (0.2 - 0.7) 0.5 (0.3 - 0.9) 0.7 (0.4 - 1.2) College or greater 1.0 1.0 1.0 1.0 1.0 1.0 1.0 Employment status 1.0								
Race/ethnicity White, non-Hispanic 1.0 1.0 1.0 1.0 Black, non-Hispanic 0.9 $(0.6 - 1.2)$ 0.8 $(0.5 - 1.1)$ 0.8 $(0.6 - 1.2)$ Hispanic 0.8 $(0.6 - 1.2)$ 0.8 $(0.5 - 1.1)$ 0.8 $(0.6 - 1.2)$ Hispanic 0.8 $(0.6 - 1.2)$ 0.8 $(0.5 - 1.1)$ 0.8 $(0.6 - 1.2)$ Asian, non-Hispanic 0.2 $(0.1 - 0.7)$ 0.2 $(0.0 - 0.7)$ 0.2 $(0.0 - 0.7)$ Asian, non-Hispanic 0.6 $(0.4 - 1.0)$ 0.8 $(0.3 - 1.8)$ 0.9 $(0.4 - 2.2)$ Highest education 0.6 $(0.4 - 1.0)$ 0.5 $(0.3 - 1.4)$ 0.4 $(0.2 - 0.7)$ Some college or Associates degree 0.9 $(0.5 - 1.4)$ 0.7 $(0.4 - 1.2)$ College or greater 1.0 1.0 1.0 1.0 1.0 Employed 1.0 1.0 1.0 1.0 1.0 1.0 Maried 1.0 1.1 0.6 $(0.4 - 0.9)$								
While, non-Hispanic 1.0 1.0 1.0 1.0 Black, non-Hispanic 0.9 0.6 - 1.2) 0.8 (0.5 - 1.1) 0.8 (0.6 - 1.2) Asian, non-Hispanic 0.2 (0.1 - 0.6) 0.2 (0.1 - 0.7) 0.2 (0.0 - 0.7) Other 1.0 (0.4 - 2.2) 0.8 (0.3 - 1.8) 0.9 (0.6 - 1.2) Liss than high school 0.4 (0.2 - 0.7) 0.8 (0.3 - 1.8) 0.9 (0.4 - 0.2) Uses than high school 0.4 (0.2 - 0.7) 0.8 (0.3 - 1.8) 0.9 (0.4 - 0.2) Some college or Associates degree 0.9 (0.5 - 1.4) 0.5 (0.3 - 0.9) 0.7 (0.4 - 1.2) College or greater 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 Bralower 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Female	1.0	(0.8 – 1.4)	1.1	(0.8 – 1.5)	1.1	(0.8 – 1.5)	
Black, non-Hispanic 0.9 (0.6 - 1.2) 0.8 (0.5 - 1.1) 0.8 (0.6 - 1.2) Hispanic 0.8 (0.6 - 1.2) 0.8 (0.6 - 1.2) 1.0 (0.7 - 1.4) Asian, non-Hispanic 0.2 (0.1 - 0.7) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) Highest education 0.4 (0.2 - 0.7) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) 0.7 (0.5 - 0.9) (0.6 - 0.9) (0.7 - 0.9) (0.7 - 0.9) (0.7 - 0.9) (0.7 - 0.9) (0.7 - 0.9) (0.7 -	Race/ethnicity							
Hispanic 0.8 (0.6 - 1.2) 0.8 (0.6 - 1.2) 1.0 (0.7 - 1.4) Asian, non-Hispanic 0.2 (0.1 - 0.6) 0.2 (0.1 - 0.7) 0.2 (0.0 - 0.7) Other 1.0 (0.4 - 2.0) 0.8 (0.3 - 1.8) 0.2 (0.0 - 0.7) Highest education 0.4 (0.2 - 0.7) 0.8 (0.3 - 1.8) 0.4 (0.2 - 0.7) High school 0.4 (0.2 - 0.7) 0.5 (0.3 - 0.9) 0.5 (0.3 - 0.9) Some college or Associates degree 0.9 (0.5 - 1.4) 0.5 (0.3 - 0.9) 0.7 (0.4 + 1.2) College or greater 1.0 1.0 1.0 1.0 1.0 1.0 Retired 0.6 (0.4 - 1.0) 1.0 1.0 1.0 1.0 Netrined 1.0 1.1 1.1 1.0 1.0 1.0 1.0 Narital status 1.0 1.0 1.0 1.0 1.0 1.0 1.0 Number of office visits past 12 months 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.0	-							
Asian, non-Hispanic 0.2 (0.1 - 0.6) 0.2 (0.1 - 0.7) 0.2 (0.0 - 0.7) Other 1.0 (0.4 - 2.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) High school 0.6 (0.2 - 0.7) 0.8 (0.3 - 1.8) 0.4 (0.2 - 0.7) High school 0.6 0.6 - 1.0) 0.6 0.4 - (0.2 - 0.7) 0.7 (0.4 - 1.2) College or Associates degree 0.9 (0.5 - 1.4) 0.7 (0.4 - 1.2) 1.0 Employed 1.0 1.0 1.0 1.0 1.0 1.0 Retired 0.6 (0.4 - 1.0) 1.0 1.0 1.0 1.0 Volumeer/NIF 0.7 (0.4 - 1.3) 0.7 0.4 1.0 1.0 Widwed 0.6 (0.4 - 0.9) 1.0 1.0 1.0 1.0 1.0 Volumeer/NIF 1.1 (0.6 - 1.8) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0							,	
Other 1.0 (0.4 - 2.2) 0.8 (0.3 - 1.8) 0.9 (0.4 - 2.2) Highest education Less than high school 0.4 (0.2 - 0.7) 0.5 0.3 - 0.9) 0.4 (0.2 - 0.7) High school diploma Some college or Associates degree 0.6 (0.4 - 1.0) 0.5 (0.3 - 0.9) 0.7 (0.4 - 1.2) College or greater 1.0 1.0 1.0 1.0 1.0 1.0 Employed 1.0 0.4 (0.2 - 0.7) 1.0 1.0 1.0 Retired 0.6 (0.4 - 1.0) 0.5 (0.4 - 1.2) 1.0 1.0 Netted 0.6 (0.4 - 1.0) 2.0 (1.4 - 2.9) 1.0 1.0 1.0 Martial status 1.0 1.1 1.1 1.1 1.0	-							
Highest action Less than high school0.4 $(0.2 - 0.7)$ $(0.5 - 1.4)$ 1.0 0.4 $(0.2 - 0.7)$ 0.5 0.4 $(0.2 - 0.7)$ 0.5 0.5 $(0.2 - 0.7)$ 0.5 0.5 $(0.2 - 0.7)$ 0.5 0.7 $(0.4 - 1.2)$ 1.0 0.5 $(0.2 - 0.7)$ 0.5 0.7 $(0.4 - 1.2)$ 1.0 0.7 $(0.4 - 1.2)$ 1.0 1.0Employed1.01.01.01.01.0Employed1.01.01.0Retired0.6 $(0.4 - 1.0)$ 2.0 $(1.4 - 2.9)$ $1.1 - 3.3)$ Volunteer/NLF0.7 $(0.4 - 1.4)$ Marital status Marital status Marided1.01.01.01.0Marital status Marited1.01.01.0Never married Lind with partner1.01.01.0Number of office visits past 12 months1.01.5 $(1.1 - 2.1)$ 0.6 $(0.4 - 0.9)$ 0.6 Number of office visits past 12 months1.01.5 $(1.1 - 2.1)$ 0.6 $(0.4 - 0.9)$ Number of office visits past 12 months1.01.5 $(1.1 - 2.1)$ 0.6 $(0.4 - 0.9)$ Couldn't afford mental health care, past2.2 $(1.8 - 5.7)$ 3.2 $(1.8 - 5.7)$ 3.8 $(2.1 - 6.7)$ $(2.1 - 6.7)$ $(3.4 - 13.8)$ $(2.1 - 6.7)$ $(3.4 - 13.8)$ $(2.1 - 6.7)$ $(3.4 - 13.8)$ Couldn't afford mental health care, past $(2.1 - 6.7)$ $(3.4 - 13.8)$ $(2.1 - 6.7)$ $(3.4 - 13.8)$ $(2.1 - 6.7)$ 	Asian, non-Hispanic			0.2		0.2		
Less than high school 0.4 (0.2 - 0.7) 0.4 (0.2 - 0.7) High school diploma 0.6 (0.4 - 1.0) 0.5 (0.3 - 0.9) Some college or Associates degree 0.9 (0.5 - 1.4) 0.7 (0.4 - 1.2) College or greater 1.0 1.0 1.0 1.0 1.0 Employed 1.0 1.0 1.0 1.0 1.0 Nettred 0.6 (0.4 - 1.0) 1.0 1.0 1.0 Namical Satus - - 1.0 1.0 1.0 Marital Satus - - - 1.0 1.0 1.0 Married 1.0	Other	1.0	(0.4 – 2.2)	0.8	(0.3 – 1.8)	0.9	(0.4 – 2.2)	
High school diploma 0.6 (0.4 - 1.0) 0.5 (0.3 - 0.9) Some college or Associates degree 0.9 (0.5 - 1.4) 0.7 (0.4 - 1.2) College or greater 1.0 1.0 1.0 1.0 Employment status 1.0 1.0 1.0 1.0 Employded 1.0 0.6 (0.4 - 1.0) 1.0 Disabled 2.0 (1.4 - 2.9) 1.0 1.0 Winteer/NILF 0.7 (0.4 - 1.4) 0.6 0.6 0.4 - 1.0) Disabled 1.0 1.0 1.0 1.0 1.0 Widowed 0.6 (0.4 - 0.9) 1.0 1.0 1.0 Widowed 0.6 (0.4 - 1.9) 1.0 1.0 1.0 Public only 1.1 (0.6 - 1.8) 1.0 1.0 1.0 Public only 1.4 (1.0 - 1.9) 1.5 (1.1 - 2.1) 0.6 (0.4 - 0.9) Number of office visits past 12 months 0 1.0 1.0 1.0 1.0 1.0 1.3 (0.5 - 3.3) 2.1 1.3 (0.5 - 3.3	-							
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Not covered 0.7 (0.5 - 1.1) 0.6 (0.4 - 0.9) Number of office visits past 12 months 1.0 1.0 1.0 1 1.3 (0.5 - 3.3) 2 (1.8 - 5.7) 2 to 5 3.2 (1.8 - 5.7) 3.8 (2.1 - 6.7) 1.3+ 7.7 (4.3 - 13.8) 1.0 1.0	Any private		1.0		1.0			
Number of office visits past 12 months 1.0 0 1.0 1 1.3 (0.5 - 3.3) 2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8)	Public only	1.4	(1.0 – 1.9)	1.5	(1.1 – 2.1)			
0 1.0 1 1.3 (0.5 - 3.3) 2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8)	Not covered	0.7	(0.5 – 1.1)	0.6	(0.4 - 0.9)			
1 1.3 (0.5 - 3.3) 2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months Image: Second colspan="2">Image: Second colspan="2" Image: Second c	Number of office visits past 12 months							
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6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months	2 to 5	3.2						
13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months	6 to 12							
12 months								
No 1.0								
	No		1.0					
Yes 1.8 (1.3 – 2.5)	Yes	1.8	(1.3 – 2.5)					

Characteristic	ι	Inadjusted		usted Model 6		isted Model 7
						+ education + coun
	OR**	95% C.I.	OR**	95% C.I.	OR**	95% C.I.
Age						
18-44	4.1	(2.6 – 6.3)	4.8	(3.0 – 7.6)	3.6	(2.2 – 5.7)
45-64	3.0	(2.1 – 4.3)	3.4	(2.3 – 5.0)	2.7	(1.8 – 3.9)
≥65		1.0		1.0		1.0
Sex						
Male		1.0		1.0		1.0
Female	1.0	(0.8 – 1.4)	1.1	(0.8 – 1.5)	1.1	(0.8 – 1.5)
Race/ethnicity						
White, non-Hispanic		1.0		1.0		1.0
Black, non-Hispanic	0.9	(0.6 – 1.2)	0.8	(0.5 – 1.1)	0.8	(0.6 – 1.2)
Hispanic	0.8	(0.6 – 1.2)	0.9	(0.7 – 1.3)	1.0	(0.7 – 1.5)
Asian, non-Hispanic	0.2	(0.1 – 0.6)	0.2	(0.1 – 0.7)	0.2	(0.0 - 0.7)
Other	1.0	(0.4 – 2.2)	0.8	(0.3 – 2.0)	1.0	(0.4 – 2.4)
Highest education						
Less than high school	0.4	(0.2 - 0.7)	0.3	(0.2 - 0.6)	0.4	(0.2 - 0.7)
High school diploma	0.6	(0.4 - 1.0)	0.5	(0.3 – 0.8)	0.5	(0.3 - 0.9)
Some college or Associates degree	0.9	(0.5 – 1.4)	0.7	(0.4 - 1.2)	0.8	(0.5 – 1.3)
College or greater		1.0		1.0		1.0
Employment status						
Employed		1.0				
Retired	0.6	(0.4 - 1.0)				
Disabled	2.0	(1.4 – 2.9)				
Unemployed	1.9	(1.1 – 3.3)				
Volunteer/NILF	0.7	(0.4 – 1.4)				
Marital status						
Married		1.0				
Widowed	0.6	(0.4 - 0.9)				
Divorced/separated	1.3	(1.0 – 1.8)				
Never married	1.7	(1.2 – 2.5)				
Living with partner	1.1	(0.6 – 1.8)				
Health insurance						
Any private		1.0		1.0		
Public only	1.4	(1.0 – 1.9)	1.8	(1.3 – 2.5)		
Not covered	0.7	(0.5 – 1.1)	0.7	(0.4 - 1.0)		
Number of office visits past 12 months						
0		1.0				
1	1.3	(0.5 - 3.3)				
2 to 5	3.2	(1.8 – 5.7)				
6 to 12	3.8	(2.1 – 6.7)				
13+	7.7	(4.3 – 13.8)				
Couldn't afford mental health care, past 12 months						
No		1.0				1.0
Yes	1.8	(1.3 – 2.5)			1.5	(1.0 – 2.0)

Age 4.1 $(25 - 6.3)$ 4.4 $(2.8 - 7.0)$ 4.2 $(25 - 6.3)$ 4564 3.0 $(2.1 - 4.3)$ 3.2 $(2.2 - 7.7)$ 3.1 $(2.1 - 4.3)$ 265 1.0 1.0 1.0 1.0 1.0 Sex 1.0 1.0 1.0 1.0 1.0 Female 1.0 0.8 - 1.4) 1.1 $(0.8 - 1.3)$ 1.0 1.0 Racelethnicity 1.0 1.0 1.0 1.0 1.0 1.0 Black, non-Hispanic 0.9 $(0.6 - 1.2)$ 0.9 $(0.6 - 1.3)$ 1.0 $(0.7 - 1.3)$ Asian, non-Hispanic 0.2 $(0.1 - 0.6)$ 0.3 $(0.1 - 0.8)$ 0.2 $(0.1 - 0.6)$ Other 1.0 $(0.4 - 2.2)$ 0.9 $(0.4 - 2.0)$ 0.9 $(0.4 - 2.0)$ Bibes chool diptoma 0.6 $(0.4 - 1.0)$ 0.5 $(0.3 - 0.2)$ 0.7 $(0.4 - 1.0)$ Disabed 2.0 $(1.4 - 2.9)$ 0.7 $(0.4 - 1.0)$	Characteristic			Adjusted Model 9			
Age 100 mm 100 mm <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
13:44 4.1 $(26 - 6.3)$ 4.4 $(2.8 - 7.0)$ 4.2 $(2.6 - 4.5)$ 45:64 3.0 $(2.1 - 4.3)$ 3.2 $(2.2 - 4.7)$ 1.0 1.0 Sex 1.0 1.0 1.0 1.0 1.0 1.0 Sex 1.0 1.0 1.0 1.0 1.0 1.0 Race/athnicity 1.0 1.0 1.0 1.0 1.0 1.0 Whet, non-Hispanic 0.9 $(0.6 - 1.2)$ 0.8 $(0.5 - 1.3)$ 1.0 $(0.5 - 1.3)$ 1.0 $(0.7 - 1.4)$ Asian, non-Hispanic 0.2 $(0.1 - 0.6)$ 0.3 $(0.1 - 0.8)$ 0.2 $(0.1 - 0.6)$ Other 1.0 $(0.4 - 2.2)$ 0.9 $(0.4 - 2.0)$ 0.9 $(0.4 - 2.0)$ Wine status 1.0 1.0 $(0.4 - 1.0)$ $(0.5 - 1.4)$ 0.5 $(0.3 - 0.2)$ User status 1.0 1.0 $(1.4 - 2.9)$ 0.7 $(0.4 - 1.0)$ 0.5 $(0.3 - 0.6)$ 0.5 $(0.3 - 0.6)$ 0.5 $(0.3 - 0.6)$ 0.5 $(0.3 - 0.6)$ 0.7 $(0.4 $		OR**	95% C.I.	OR**	95% C.I.	OR**	95% C.I.
45-64 3.0 (2.1 - 4.3) 3.2 (2.2 - 4.7) 3.1 (2.1 - 4.3) 8265 1.0 1.0 1.0 1.0 1.0 1.0 Sex 1.0 1.0 1.0 1.0 1.0 1.0 Female 1.0 0.8 - 1.2) 0.8 0.5 - 1.1) 0.8 0.5 - 1.1) Bick, non-Hispanic 0.9 0.6 - 1.2) 0.9 0.6 - 1.3) 1.0 0.7 - 0.2 Asian, non-Hispanic 0.2 (0.1 - 0.6) 0.3 0.1 - 0.8 0.2 (0.1 - 0.6) 0.3 0.4 - 2.0) 0.9 0.6 - 1.3) Asian, non-Hispanic 0.2 (0.1 - 0.6) 0.3 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.5 (0.3 - 0.2) 0.5 (0.3 - 0.2) 0.5 (0.3 - 0.2) 0.5 (0.3 - 0.2) 0.5 (0.3 - 0.2) 0.5 (0.4 - 2.0) 0.5 (0.4 - 2.0) 0.5 (0.4 - 2.0) 0.5 (0.4 - 2.0) 0.5 (0.4 - 2.0) 0.5 (0.4 - 2.0) 0.5 (0.3 - 0.2) 0.5 (0.3 - 0.2) 0.5 (0.4 - 2.0) 0.5 (0.4 -	-	l					
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Sex Maile Female 1.0		3.0		3.2		3.1	(2.1 – 4.6)
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White, non-Hispanic 1.0 1.0 1.0 1.0 Black, non-Hispanic 0.9 $0.6 - 1.2$) 0.8 $(0.5 - 1.1)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.3)$ 0.8 $(0.5 - 1.4)$ 0.9 $(0.4 - 2.2)$ 0.9 $(0.4 - 2.0)$ 0.9 $(0.4 - 2.0)$ 0.9 $(0.4 - 2.0)$ 0.9 $(0.4 - 2.0)$ 0.3 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.7)$ 0.5 $(0.3 - 0.5)$ 0.5 $(0.3 - 0.5)$ 0.5 $(0.3 - 0.5)$ 0.5 $(0.3 - 0.5)$ 0.5 $(0.3 - 0.5)$ 0.5 $(0.4 - 0.7)$ 0.7 $(0.4 - 1.3)$ 0.7 $(0.4 - 1.3)$ 0.7 $(0.4 - 1.3)$ $(0.5 - 0.4)$ 0.7 $(0.4 - 0.5)$ 0.5 $(0.4 - 0.5)$	Female	1.0	(0.8 – 1.4)	1.1	(0.8 – 1.5)	1.1	(0.8 – 1.5)
Black, non-Hispanic 0.9 (0.6 - 1.2) 0.8 (0.5 - 1.3) 1.0 (0.7 - 1.3) Asian, non-Hispanic 0.2 (0.1 - 0.6) 0.3 (0.1 - 0.3) 0.1 - 0.8) 0.9 (0.4 - 2.2) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.9 (0.4 - 2.0) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.2 - 0.1) 0.5 (0.4 - 1.0) 0.5 (0.4 - 1.0) 0.5 (0.4 - 1.0) 0.5 (0.4 - 1.0) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Race/ethnicity	1					
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Asian, non-Hispanic 0.2 $(0.1 - 0.6)$ 0.3 $(0.1 - 0.8)$ 0.2 $(0.1 - 0.6)$ Other 1.0 $(0.4 - 2.2)$ 0.9 $(0.4 - 2.0)$ 0.9 $(0.4 - 2.0)$ Highest education Less than high school 0.4 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.6)$ 0.3 $(0.2 - 0.6)$ Some college or Associates degree 0.9 $(0.5 - 1.4)$ 0.5 $(0.3 - 0.6)$ 0.7 $(0.4 - 1.0)$ Some college or Associates degree 1.0 1.0 1.0 1.0 1.0 Retired 0.6 $(0.4 - 1.0)$ 0.5 0.3 0.2 0.7 $0.4 - 1$ Disabled 2.0 $(1.4 - 2.9)$ 1.0 1.0 1.0 1.0 Mariad 1.0 1.0 1.1 $0.6 - 0.9$ 0.5 $0.3 - 0.8$ 0.5 $0.4 - 0.9$ Divorced/separated 1.3 $(1.0 - 1.8)$ 1.0 1.0 1.0 1.0 Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7 $(1.2 - 2.1)$ 0.5	Black, non-Hispanic	0.9	(0.6 - 1.2)	0.8	(0.5 – 1.1)	0.8	(0.5 – 1.1)
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Highest education Less than high school 0.4 $(0.2 - 0.7)$ 0.3 $(0.2 - 0.7)$ High school diploma 0.6 $(0.4 - 1.0)$ 0.5 $(0.3 - 0.2)$ Some college or Associates degree 0.9 $(0.5 - 1.4)$ 0.7 $(0.4 - 1.6)$ College or greater 1.0 1.0 1.0 1.0 Employed 1.0 1.0 1.0 1.0 Retired 0.6 $(0.4 - 1.0)$ 0.3 $(0.2 - 0.7)$ Uhenployed 1.9 $(1.1 - 3.3)$ $(0.4 - 1.4)$ 1.0 Marital status Marital status Marital status Marital status Never married 1.7 $(1.2 - 2.6)$ Living with partner 1.1 $(0.6 - 1.8)$ 1.0 1.0 1.0 Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ $(1.7 - (1.2 - 2.6))$ Number of office visits past 12 months 0 0.7 $(0.5 - 1.1)$ 0.5 $(0.3 - 0.8)$ 0.5 $(0.4 - 0.8)$ Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7 $(1.2 - 2.1)$ 0.5 $(0.4 - 0.8)$ </td <td>Asian, non-Hispanic</td> <td>0.2</td> <td>(0.1 – 0.6)</td> <td>0.3</td> <td>(0.1 – 0.8)</td> <td>0.2</td> <td>(0.1 – 0.7)</td>	Asian, non-Hispanic	0.2	(0.1 – 0.6)	0.3	(0.1 – 0.8)	0.2	(0.1 – 0.7)
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High school diploma 0.6 (0.4 - 1.0) 0.5 (0.3 - 0) Some college or Associates degree 0.9 (0.5 - 1.4) 0.7 (0.4 - 1) College or greater 1.0 1.0 1.0 1.0 Employment status 1.0 1.0 1.0 1.0 Retired 0.6 (0.4 - 1.0) 1.0 1.0 Disabled 2.0 (1.4 - 2.9) 1.0 1.0 Unemployed 1.9 (1.1 - 3.3) 1.0 1.0 1.0 Marital status 1.0 0.7 (0.4 - 1.4) 1.0 1.0 1.0 Widowed 0.6 0.04 - 0.9) 1.0 1.0 1.0 1.0 Never married 1.3 (1.0 - 1.8) 1.0 1.0 1.0 1.0 Public only 1.4 (1.0 - 1.9) 1.6 (1.2 - 2.1) 1.7 (1.2 - 2.1) Number of office visits past 12 months 0.7 (0.5 - 1.1) 0.5 (0.3 - 0.8) 0.5 (0.4 - 0.0) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	-	l					
Some college or Associates degree 0.9 (0.5 - 1.4) 0.7 (0.4 - 1 College or greater 1.0 1.0 1.0 1.0 Employment status 1.0 1.0 1.0 1.0 Retired 0.6 (0.4 - 1.0) 1.0 1.0 Disabled 2.0 (1.4 - 2.9) 1.0 1.0 Unemployed 1.9 (1.1 - 3.3) 1.0 1.0 Warital status 0.6 (0.4 - 1.4) 1.0 1.0 Marital status 1.0 1.0 1.0 1.0 Widowed 0.6 (0.4 - 0.9) 1.0 1.0 1.0 Divorced/separated 1.3 (1.0 - 1.8) 1.0 1.0 1.0 Public only 1.1 (0.6 - 1.8) 0.5 (0.3 - 0.8) 0.5 (0.4 - 0.0) Public only 1.4 (1.0 - 1.9) 1.6 (1.2 - 2.1) 1.7 (1.2 - 2.1) Number of office visits past 12 months 0.5 (0.5 - 3.3) 0.5 (0.4 - 0.0) 1 1.3 (0.5 - 3.3) 1.0 1.5 (0.4 - 0.0) <td< td=""><td>Less than high school</td><td>0.4</td><td></td><td></td><td></td><td>0.3</td><td>(0.2 – 0.6)</td></td<>	Less than high school	0.4				0.3	(0.2 – 0.6)
College or greater 1.0 1.0 Employment status 1.0 1.0 Employed 1.0 1.0 Retired 0.6 (0.4 - 1.0) Disabled 2.0 (1.4 - 2.9) Unemployed 1.9 (1.1 - 3.3) Volunteer/NLF 0.7 (0.4 - 1.4) Mariad 1.0 1.0 Mariad 1.0 1.0 Widowed 0.6 (0.4 - 0.9) Divorced/separated 1.3 (1.0 - 1.8) Never married 1.7 (1.2 - 2.5) Living with partner 1.1 (0.6 - 1.8) Health insurance 1.0 1.0 Any private 1.0 1.0 Public only 1.4 (1.0 - 1.9) 1.6 (1.2 - 2.1) Number of office visits past 12 months 0.7 (0.5 - 1.1) 0.5 (0.3 - 0.8) 0.5 0 1.0 1.0 1.0 1.0 1.0 1.0 1 1.3 (0.5 - 3.3) 0.5 (0.4 - 0.1) 0.5 (0.3 - 0.8) 0.5 (0.4 - 0.1) <t< td=""><td>High school diploma</td><td>0.6</td><td>(0.4 - 1.0)</td><td></td><td></td><td>0.5</td><td>(0.3 – 0.9)</td></t<>	High school diploma	0.6	(0.4 - 1.0)			0.5	(0.3 – 0.9)
Employment status I.0 Employed 1.0 Retired 0.6 (0.4 - 1.0) Disabled 2.0 (1.4 - 2.9) Unemployed 1.9 (1.1 - 3.3) Volunteer/NILF 0.7 (0.4 - 1.4) Married 1.0 Married 1.0 Married 1.0 Widtwed 0.6 (0.4 - 0.9) Divorced/separated 1.3 (1.0 - 1.8) Never married 1.7 (1.2 - 2.5) Living with partner 1.1 (0.6 - 1.8) Health insurance Any private 1.0 1.0 Public only 1.4 (1.0 - 1.9) 1.6 (1.2 - 2.1) 1.7 (1.2 - 2.1) Number of office visits past 12 months 0 0.5 (0.4 - 0) 0.5 (0.4 - 0) 1 1.3 (0.5 - 3.3) 0.5 (0.4 - 0) 0.5 (0.4 - 0) Number of office visits past 12 months 0 1.8 (1.8 - 5.7) (3.8 (2.1 - 6.7)) 1.3 (2.1 - 6.7)	Some college or Associates degree	0.9	(0.5 – 1.4)			0.7	(0.4 – 1.2)
Employed 1.0 Retired 0.6 $(0.4 - 1.0)$ Disabled 2.0 $(1.4 - 2.9)$ Unemployed 1.9 $(1.1 - 3.3)$ Volunteer/NLF 0.7 $(0.4 - 1.4)$ Maried 1.0 $(0.4 - 1.4)$ Maried 1.0 $(0.4 - 1.4)$ Maried 1.0 $(0.4 - 0.9)$ Divorced/separated 1.3 $(1.0 - 1.8)$ Never married 1.7 $(1.2 - 2.5)$ Living with partner 1.1 $(0.6 - 1.8)$ Health insurance 1.0 1.0 Any private 1.0 1.0 Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7 $(1.2 - 2.1)$ Number of office visits past 12 months 0 0.5 $(0.4 - 0)$ 0.5 $(0.3 - 0.8)$ 0.5 $(0.4 - 0)$ Number of office visits past 12 months 0 1.0 1.0 1.3 $(0.5 - 3.3)$ $2 to 5$ 3.2 $(1.8 - 5.7)$ $6 to 12$ 3.8 $(2.1 - 6.7)$ $13 + 7.7$ $(4.3 - 13.8)$ -1.0 -1.0 -1.0 <	College or greater	1	1.0				1.0
Retired 0.6 (0.4 - 1.0) Disabled 2.0 (1.4 - 2.9) Unemployed 1.9 (1.1 - 3.3) Volunteer/NILF 0.7 (0.4 - 1.4) Marital status 0.6 (0.4 - 0.9) Divrced/separated 1.0 1.0 Widowed 0.6 (0.4 - 0.9) Divrced/separated 1.3 (1.0 - 1.8) Never married 1.7 (1.2 - 2.5) Living with partner 1.1 (0.6 - 1.8) Health insurance 1.0 1.0 Any private 1.0 1.6 (1.2 - 2.1) Nubber of office visits past 12 months 0.5 (0.3 - 0.8) 0.5 0 1.0 1.0 1.0 1.0 Number of office visits past 12 months 0 0.5 (0.4 - 0) 0 1.0 1.0 1.5 (0.3 - 0.8) 0.5 11 1.3 (0.5 - 3.3) 2.1 - 6.7) 1.3 (0.5 - 3.3) 2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) <td>Employment status</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Employment status	1					
Disabled 2.0 (1.4 - 2.9) Unemployed 1.9 (1.1 - 3.3) Volunteer/NILF 0.7 (0.4 - 1.4) Marital status	Employed	I	1.0				
Unemployed 1.9 (1.1 - 3.3) Volunteer/NILF 0.7 (0.4 - 1.4) Marital status 1.0 Married 1.0 Widowed 0.6 (0.4 - 0.9) Divorced/separated 1.3 (1.0 - 1.8) Never married 1.7 (1.2 - 2.5) Living with partner 1.1 (0.6 - 1.8) Health insurance 1.1 (0.6 - 1.8) Any private 1.0 1.0 Public only 1.4 (1.0 - 1.9) Not covered 0.7 (0.5 - 1.1) 0.5 (0.3 - 0.8) 0.5 1 1.3 (0.5 - 3.3) 2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 1.0	Retired	0.6	(0.4 - 1.0)				
Volunteer/NILF 0.7 $(0.4 - 1.4)$ Marital status Marital status 1.0 Marined 1.0 Widowed 0.6 $(0.4 - 0.9)$ Divorced/separated 1.3 $(1.0 - 1.8)$ Never married 1.7 $(1.2 - 2.5)$ Living with partner 1.1 $(0.6 - 1.8)$ Health insurance Any private 1.0 1.0 Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ Not covered 0.7 $(0.5 - 1.1)$ 0.5 $(0.3 - 0.8)$ 0.5 Number of office visits past 12 months 1.0 1.0 0.5 $(0.4 - 0)$ 1 1.3 $(0.5 - 3.3)$ $2 to 5$ 3.2 $(1.8 - 5.7)$ 6 to 12 3.8 $(2.1 - 6.7)$ 7.7 $(4.3 - 13.8)$ Couldn't afford mental health care, past Line Line Line 12 months	Disabled	2.0	(1.4 – 2.9)				
Marital status Married 1.0 Married 1.0 Widowed 0.6 $(0.4 - 0.9)$ Divorced/separated 1.3 $(1.0 - 1.8)$ Never married 1.7 $(1.2 - 2.5)$ Living with partner 1.1 $(0.6 - 1.8)$ Health insurance 1.1 $(0.6 - 1.8)$ Hubic only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7 Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7 $(1.2 - 2.1)$ Number of office visits past 12 months 0.7 $(0.5 - 1.1)$ 0.5 $(0.3 - 0.8)$ 0.5 $(0.4 - 0)$ Number of office visits past 12 months 1.0 1.0 1.3 $(0.5 - 3.3)$ $2.1 + 6.7$ 3.2 $(1.8 - 5.7)$ $6.1 + 2$ 3.8 $(2.1 - 6.7)$ $1.3 + 7.7$ $(4.3 - 13.8)$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - 13.8$ $4.3 - $	Unemployed	1.9	(1.1 – 3.3)				
Married1.0Widowed 0.6 $(0.4 - 0.9)$ Divorced/separated 1.3 $(1.0 - 1.8)$ Never married 1.7 $(1.2 - 2.5)$ Living with partner 1.1 $(0.6 - 1.8)$ Health insurance 1.1 $(0.6 - 1.8)$ Any private 1.0 1.0 Public only 1.4 $(1.0 - 1.9)$ Not covered 0.7 $(0.5 - 1.1)$ 0.5 $(0.3 - 0.8)$ 0.5 0.5 $(0.4 - 0)$ Number of office visits past 12 months 1.0 0 1.0 1 1.3 0.5 $(0.2 - 3.3)$ $2 to 5$ 3.2 $6 to 12$ 3.8 $(2.1 - 6.7)$ $13+$ 7.7 $(4.3 - 13.8)$ Couldn't afford mental health care, past 12 months	Volunteer/NILF	0.7	(0.4 – 1.4)				
Widowed 0.6 $(0.4 - 0.9)$ Divorced/separated 1.3 $(1.0 - 1.8)$ Never married 1.7 $(1.2 - 2.5)$ Living with partner 1.1 $(0.6 - 1.8)$ Health insurance 1.1 $(0.6 - 1.8)$ Any private 1.0 1.0 Public only 1.4 $(1.0 - 1.9)$ Not covered 0.7 $(0.5 - 1.1)$ Number of office visits past 12 months 0.5 0 1.0 1 1.3 $(0.5 - 3.3)$ 2 to 5 3.2 $(1.8 - 5.7)$ 6 to 12 3.8 $(2.1 - 6.7)$ 13+ 7.7 $(4.3 - 13.8)$		1					
Divorced/separated1.3 $(1.0 - 1.8)$ Never married1.7 $(1.2 - 2.5)$ Living with partner1.1 $(0.6 - 1.8)$ Health insurance1.1 $(0.6 - 1.8)$ Any private1.01.0Public only1.4 $(1.0 - 1.9)$ Not covered0.7 $(0.5 - 1.1)$ Number of office visits past 12 months001.011.32 to 53.26 to 123.813+7.7Couldn't afford mental health care, past12 months	Married	I					
Never married 1.7 $(1.2 - 2.5)$ Living with partner 1.1 $(0.6 - 1.8)$ Health insurance 1.1 $(0.6 - 1.8)$ Any private 1.0 1.0 Public only 1.4 $(1.0 - 1.9)$ Not covered 0.7 $(0.5 - 1.1)$ Number of office visits past 12 months 0.7 0.5 $(0.3 - 0.8)$ 0.5 0.5 0.12 1.3 1.3 $(0.5 - 3.3)$ $2 to 5$ 3.2 $6 to 12$ 3.8 $13+$ 7.7 $(4.3 - 13.8)$ Couldn't afford mental health care, past 12 months		0.6					
Living with partner1.1 $(0.6 - 1.8)$ Health insurance1.01.01.0Any private1.01.01.0Public only1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7Not covered0.7 $(0.5 - 1.1)$ 0.5 $(0.3 - 0.8)$ 0.5Number of office visits past 12 months1.01.011.3 $(0.5 - 3.3)$ 0.5 $(0.4 - 0)$ 2 to 53.2 $(1.8 - 5.7)$ 6 to 123.8 $(2.1 - 6.7)$ 13+7.7 $(4.3 - 13.8)$ $(2.1 - 6.7)$ $(2.1 - 6.7)$		1.3					
Health insurance Any private1.01.01.0Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7 $(1.2 - 2.1)$ Not covered 0.7 $(0.5 - 1.1)$ 0.5 $(0.3 - 0.8)$ 0.5 $(0.4 - 0)$ Number of office visits past 12 months 1.0 1.0 1.0 1.0 1.0 1 1.3 $(0.5 - 3.3)$ 0.5 $(0.4 - 0)$ 2 to 5 3.2 $(1.8 - 5.7)$ 6 to 12 3.8 $(2.1 - 6.7)$ 13+ 7.7 $(4.3 - 13.8)$ $4.3 - 13.8)$ $4.3 - 13.8$							
Any private 1.0 1.0 1.0 1.0 Public only 1.4 (1.0 - 1.9) 1.6 (1.2 - 2.1) 1.7 (1.2 - 2.1) Not covered 0.7 (0.5 - 1.1) 0.5 (0.3 - 0.8) 0.5 (0.4 - 0) Number of office visits past 12 months 1.0 1.0 1.0 1.0 1.0 0 1.3 (0.5 - 3.3) 0.5 (0.4 - 0) 0.5 <t< td=""><td>Living with partner</td><td>1.1</td><td>(0.6 – 1.8)</td><td></td><td></td><td></td><td></td></t<>	Living with partner	1.1	(0.6 – 1.8)				
Public only 1.4 $(1.0 - 1.9)$ 1.6 $(1.2 - 2.1)$ 1.7 $(1.2 - 2.1)$ Not covered 0.7 $(0.5 - 1.1)$ 0.5 $(0.3 - 0.8)$ 0.5 $(0.4 - 0)$ Number of office visits past 12 months 1.0 1.3 $(0.5 - 3.3)$ $2 to 5$ 3.2 $(1.8 - 5.7)$ 6 to 12 3.8 $(2.1 - 6.7)$ 7.7 $(4.3 - 13.8)$ $4.3 - 13.8)$ Couldn't afford mental health care, past		1					
Not covered 0.7 (0.5 - 1.1) 0.5 (0.3 - 0.8) 0.5 (0.4 - 0) Number of office visits past 12 months 1.0 1.0 1.0 1.1 1.3 (0.5 - 3.3) 1.5 (0.4 - 0) 1 1.3 (0.5 - 3.3) 3.2 (1.8 - 5.7) 3.8 (2.1 - 6.7) 1.3	Any private	1	1.0		1.0		1.0
Not covered 0.7 (0.5 - 1.1) 0.5 (0.3 - 0.8) 0.5 (0.4 - 0) Number of office visits past 12 months 1.0 1.0 1.0 1.1 1.3 (0.5 - 3.3) 1.5 (0.4 - 0) 1 1.3 (0.5 - 3.3) 3.2 (1.8 - 5.7) 3.8 (2.1 - 6.7) 1.3	Public only	1.4	(1.0 – 1.9)	1.6	(1.2 – 2.1)	1.7	(1.2 – 2.4)
0 1.0 1 1.3 (0.5 - 3.3) 2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8)	Not covered	0.7	(0.5 – 1.1)	0.5	(0.3 – 0.8)	0.5	(0.4 – 0.8)
1 1.3 (0.5 - 3.3) 2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months Image: Second colspan="2">Image: Second colspan="2" Second	Number of office visits past 12 months	l					
2 to 5 3.2 (1.8 - 5.7) 6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months Image: Constant of the second	0	I	1.0				
6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months	1	1.3	(0.5 - 3.3)				
6 to 12 3.8 (2.1 - 6.7) 13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months	2 to 5	3.2	(1.8 – 5.7)				
13+ 7.7 (4.3 - 13.8) Couldn't afford mental health care, past 12 months	6 to 12	3.8	(2.1 – 6.7)				
12 months							
No 1.0 1.0 1.0							
	No	l	1.0		1.0		1.0
Yes 1.8 (1.3 – 2.5) 1.7 (1.2 – 2.5) 1.7 (1.2 – 2.5)	Yes	1.8	(1 3 - 2 5)	17	(1 2 - 2 5)	17	(1.2 – 2.5)

Characteristic	ι	Inadjusted	-	sted Model 10
	OR**	05% 01	ducation + OR**	insurance + employ
A	UR	95% C.I.	UR	95% C.I.
Age 18-44	4.1	(2.6 – 6.3)	4.5	(2.6 – 7.7)
45-64	3.0	(2.0 – 0.3) (2.1 – 4.3)	4.5 2.7	(2.0 - 7.7) (1.7 - 4.3)
43-04 ≥65	3.0	(2.1 – 4.3) 1.0	2.1	(1.7 - 4.3)
205		1.0		1.0
Sex				
Male		1.0		1.0
Female	1.0	(0.8 – 1.4)	1.2	(0.8 – 1.6)
Race/ethnicity				
White, non-Hispanic		1.0		1.0
Black, non-Hispanic	0.9	(0.6 – 1.2)	0.7	(0.5 – 1.1)
Hispanic	0.8	(0.6 – 1.2)	1.1	(0.8 – 1.5)
Asian, non-Hispanic	0.2	(0.1 – 0.6)	0.2	(0.0 - 0.8)
Other	1.0	(0.4 – 2.2)	0.8	(0.3 – 2.1)
Highest education				
Less than high school	0.4	(0.2 - 0.7)	0.3	(0.2 - 0.5)
High school diploma	0.6	(0.4 - 1.0)	0.5	(0.3 - 0.8)
Some college or Associates degree	0.9	(0.5 – 1.4)	0.6	(0.4 - 1.1)
College or greater	0.0	1.0	0.0	1.0
Employment status				
Employed		1.0		1.0
Retired	0.6	(0.4 – 1.0)	1.6	(0.9 – 2.8)
Disabled	2.0	(1.4 – 2.9)	2.4	(0.5 - 2.0) (1.6 - 3.5)
Unemployed	1.9	(1.4 - 2.3) (1.1 - 3.3)	2.4	(1.0 - 3.3) (1.2 - 3.7)
Volunteer/NILF	0.7	(0.4 - 1.4)	0.7	(1.2 = 3.7) (0.4 - 1.4)
Marital status				
Married		1.0		
Widowed	0.6	(0.4 - 0.9)		
Divorced/separated	1.3	(1.0 – 1.8)		
Never married	1.7	(1.2 – 2.5)		
Living with partner	1.1	(0.6 – 1.8)		
Health insurance Any private		1.0		1.0
Public only	1.4	(1.0 – 1.9)	1.3	(0.9 – 1.8)
Not covered	0.7	(0.5 – 1.1)	0.5	(0.3 – 0.7)
Number of office visits past 12 months				
0		1.0		
1	1.3	(0.5 – 3.3)		
2 to 5	3.2	(1.8 – 5.7)		
6 to 12	3.8	(2.1 – 6.7)		
13+	7.7	(4.3 – 13.8)		
Couldn't afford mental health care, past 12 months				
No		1.0		1.0
Yes	1.8	(1.3 – 2.5)	1.6	(1.1 – 2.4)