Psychiatric Symptoms of Veterans Surveyed Through Facebook Ads

Benjamin Chan (chanb@ohsu.edu)

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# Read data

**Most of this code was developed in Phase 1.** Results will be suppressed for brevity.

**Use only the REDCap survey data**

Notes on the REDCap identifier variables:

* If [consent] == 1, they started the eligibility survey;
  + if == 0 or == NA, they didn’t.
* If [consent\_and\_eligibility\_complete] == 2, they finished the screener (whether eligible or ineligible);
  + if == 0, they dropped out or never started.
* If [eligible] == 1, they completed the screener and were eligible;
  + if == 0, they completed and were ineligible;
  + if == NA , they dropped out or never started.
* If [veterans\_and\_social\_media\_use\_co] == 2, they finished the survey;
  + if == 0, they dropped out or never started (this includes people who were ineligible or didn’t consent).
* If [analytic\_sample] == 0, they completed the survey but were disqualified for data quality reasons;
  + if == 1, they completed survey and was not disqualified for data quality reasons;
  + if == NA, they didn’t complete the survey.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| consent | consent\_and\_eligibility\_complete | eligible | veterans\_and\_social\_media\_use\_co | analytic\_sample | n |
| 0 | 0 | NA | 0 | NA | 8 |
| 0 | 2 | 0 | 0 | NA | 7 |
| 1 | 0 | NA | 0 | NA | 84 |
| 1 | 2 | 0 | 0 | NA | 534 |
| 1 | 2 | 1 | 0 | NA | 106 |
| 1 | 2 | 1 | 2 | 0 | 18 |
| 1 | 2 | 1 | 2 | 1 | 587 |
| NA | 0 | NA | 0 | NA | 96 |

Inclusion criteria

* Completed survey and was not disqualified for data quality reasons; [analytic\_sample] == 1

**Number included: n = 587**

Cleaning

* Parse out fba into 2 separate variables for image and text
* Assign indicator for survey participation, indSurveyParticipation
  + analytic\_sample == 1: Participant completed survey and was not disqualified for data quality reasons
* Assign indicator for eligibility screener participation, indScreenerParticipation
  + eligible == 1: Participant completed eligibility screener and was eligible to participate in full survey

## Use of VA health services

Recoding logic

* Primary analysis will code 9 (not sure) as 0 (No)
* Sensitivity analysis will exclude the 9 values from the analysis
* If va\_ever\_enrolled == FALSE & is.na(va\_use\_12mo), then recode va\_use\_12mo to FALSE
* If va\_use\_12mo == TRUE & va\_ever\_enrolled == FALSE, then recode va\_ever\_enrolled to TRUE
* Code indicators indVANeverEnrolled and indVANotUse12mo as the logical opposites of va\_ever\_enrolled and va\_use\_12mo

## Independent variables

* Score the Modified Facebook Measure of Social Support (FMSS)
  + Reverse-scored items are fmss\_r7 through fmss\_r10
* Standardize FMSS
* Prep FMSS items
  + Combine categories due to small cell sizes

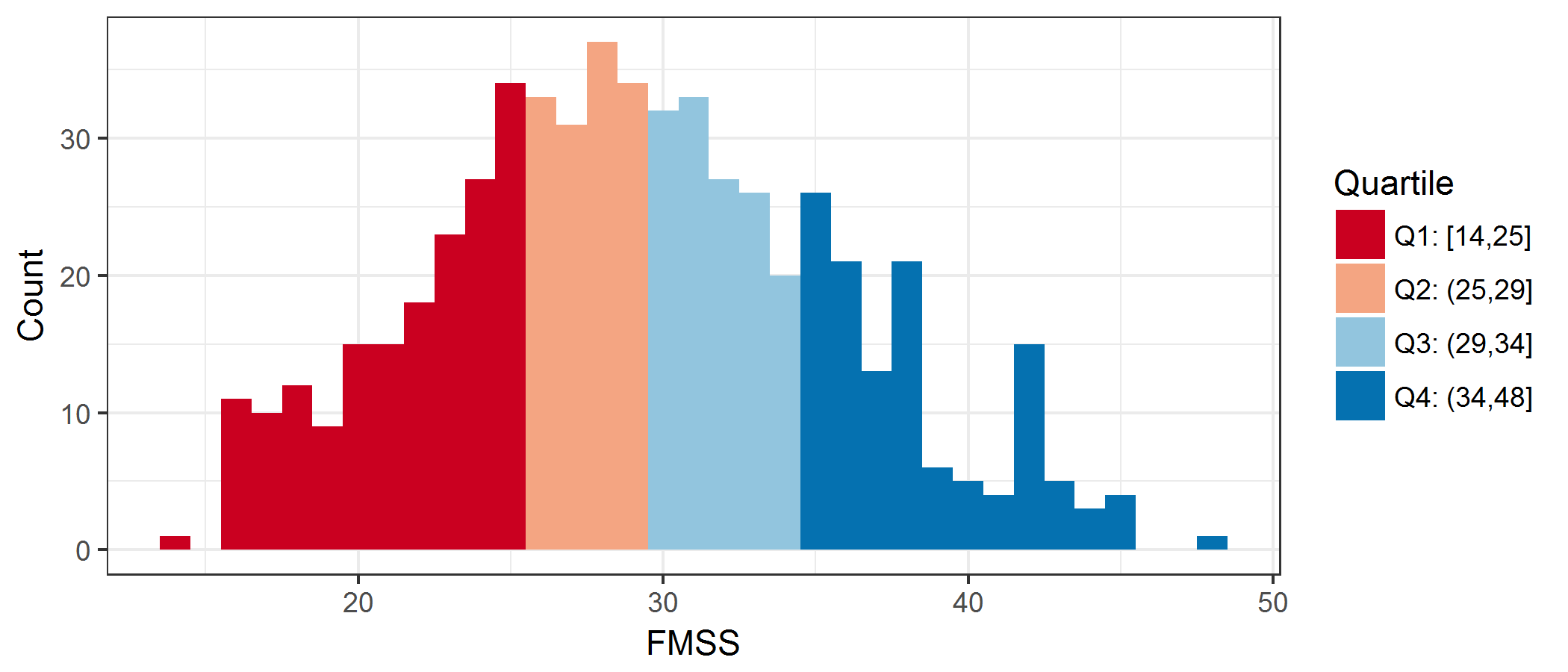
## fmss fmssZ   
## Min. :14.00 Min. :-2.29729   
## 1st Qu.:25.00 1st Qu.:-0.62179   
## Median :29.00 Median :-0.01252   
## Mean :29.08 Mean : 0.00000   
## 3rd Qu.:34.00 3rd Qu.: 0.74908   
## Max. :48.00 Max. : 2.88153   
## NA's :15 NA's :15

## fmss fmssZ  
## fmss 1 1  
## fmssZ 1 1

## fmss fmssZ  
## fmss 6.565197 2.562264  
## fmssZ 2.562264 1.000000

|  |  |  |  |
| --- | --- | --- | --- |
| fmssQuartile | n | min | max |
| Q1: [14,25] | 175 | 14 | 25 |
| Q2: (25,29] | 135 | 26 | 29 |
| Q3: (29,34] | 138 | 30 | 34 |
| Q4: (34,48] | 124 | 35 | 48 |
| NA | 15 | NA | NA |

Check.



plot of chunk histogramFMSS

Cronbach’s alpha for FMSS items 1-3.

##   
## Reliability analysis   
## Call: psych::alpha(x = .)  
##   
## raw\_alpha std.alpha G6(smc) average\_r S/N ase mean sd  
## 0.91 0.91 0.87 0.77 10 0.0065 1.1 0.9  
##   
## lower alpha upper 95% confidence boundaries  
## 0.9 0.91 0.92   
##   
## Reliability if an item is dropped:  
## raw\_alpha std.alpha G6(smc) average\_r S/N alpha se  
## fmss\_r1 0.89 0.89 0.80 0.80 7.8 0.0094  
## fmss\_r2 0.85 0.85 0.74 0.74 5.7 0.0124  
## fmss\_r3 0.87 0.87 0.78 0.78 7.0 0.0104  
##   
## Item statistics   
## n raw.r std.r r.cor r.drop mean sd  
## fmss\_r1 585 0.91 0.91 0.84 0.80 1.0 0.94  
## fmss\_r2 584 0.93 0.93 0.89 0.84 1.1 0.97  
## fmss\_r3 584 0.92 0.92 0.86 0.82 1.1 1.03  
##   
## Non missing response frequency for each item  
## 0 1 2 3 4 miss  
## fmss\_r1 0.36 0.37 0.21 0.06 0.01 0.00  
## fmss\_r2 0.33 0.38 0.21 0.08 0.01 0.01  
## fmss\_r3 0.33 0.35 0.21 0.10 0.02 0.01

Cronbach’s alpha for FMSS items 1-3 = Cronbach’s alpha = 0.910.

Create FMSS subscore for items 1-3.

## Dependent variables

### Psychiatric symptoms (RQ1)

Code indicators for psychiatric disorder screening scales

* PTSD
  + Name of scale: PC-PTSD
  + Positive screen: ptsd\_intrusive + ptsd\_avoidant + ptsd\_guarded + ptsd\_numb + ptsd\_guilty 3
* Major depression
  + Name of scale: PHQ-2
  + Positive screen: phq\_interest + phq\_mood 3
* Alcohol misuse
  + Name of scale: AUDIT-C
  + Positive screen: auditc\_freq + auditc\_amount + auditc\_binge 4 for men, 3 for women

Presence of suicidality is defined as DSI-SS score 2. This cut-off score was chosen based on recommendations for population-based samples noted in [von Glischinski M Clin Psychol Psychotherapy 2015](http://onlinelibrary.wiley.com/doi/10.1002/cpp.2007/full)

* Score the DSI-SS inventory
  + See [Joiner 2002](http://www.sciencedirect.com/science/article/pii/S0005796701000171)
  + *Scores on each item range from 0 to 3 and, for the inventory, from 0 to 12, with higher scores reflecting greater severity of suicidal ideation.*

Check.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indPTSD | mean | sd | min | max | n | freq |
| ptsd | FALSE | 0.7 | 0.8 | 0 | 2 | 319 | 54.5% |
| ptsd | TRUE | 4.2 | 0.8 | 3 | 5 | 266 | 45.5% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indPHQ | mean | sd | min | max | n | freq |
| phq | FALSE | 1.0 | 0.9 | 0 | 2 | 422 | 72.0% |
| phq | TRUE | 4.5 | 1.2 | 3 | 6 | 164 | 28.0% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indAuditC | mean | sd | min | max | n | freq |
| auditc | FALSE | 1.3 | 1.1 | 0 | 3 | 341 | 58.4% |
| auditc | TRUE | 5.9 | 2.1 | 3 | 12 | 243 | 41.6% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indDSISS | mean | sd | min | max | n | freq |
| dsiss | FALSE | 0.1 | 0.3 | 0 | 1 | 453 | 77.4% |
| dsiss | TRUE | 3.9 | 1.6 | 2 | 9 | 132 | 22.6% |

Also create logical opposite for use in RQ3 modeling

### Social media use (RQ2)

* Spending more time on Facebook?
  + Frequency of Facebook use: fb\_freq
  + Active use of Facebook: comm\_facebook
* Sharing more personal or health-related information on social media?
  + sm\_emot\_support
  + sm\_med\_info
  + sm\_med\_advice
  + sm\_med\_questions
  + sm\_share\_sympt
  + sm\_share\_health
  + sm\_share\_suicide

Mutate variables to factors.

## Covariates

* Social media platforms used: sm\_used\_\_\_1, …, sm\_used\_\_\_7, sm\_used\_\_\_99, sm\_used\_other
  + Recode the following sm\_used\_other values such that sm\_used\_\_\_99 = 0
    - I use Wikipedia to read about illnesses I don't have; it's a curiosity/hobby thing.
    - just in person
    - Just plain internet search
    - TV/phone conversations, veterans group meetings
    - google; bing
    - aol
    - e-mail
    - Web MD
    - webmd
* Offline social contact: comm\_inperson
* History of suicidal ideation and suicide attempts
  + suicide\_considered\_ever
  + suicide\_considered\_12mo
  + suicide\_attempts

Check.

|  |  |  |
| --- | --- | --- |
| smOther | sm\_used\_other | n |
| FALSE |  | 552 |
| FALSE | aol | 1 |
| FALSE | e-mail | 1 |
| FALSE | google; bing | 1 |
| FALSE | I use Wikipedia to read about illnesses I don’t have; it’s a curiosity/hobby thing. | 1 |
| FALSE | just in person | 1 |
| FALSE | TV/phone conversations, veterans group meetings | 1 |
| FALSE | Web MD, | 1 |
| FALSE | webmd | 1 |
| TRUE | 4chan | 2 |
| TRUE | Gmail Hangouts; Reddit.com | 1 |
| TRUE | Google+ | 2 |
| TRUE | I used LiveJournal for the majority of my service as well as my deployment to Iraq | 1 |
| TRUE | Linked In | 1 |
| TRUE | LinkedIn, Snapchat | 1 |
| TRUE | LiveJournal | 1 |
| TRUE | MIL.MIL | 1 |
| TRUE | Ravelry Forums | 1 |
| TRUE | reddit | 3 |
| TRUE | Reddit | 5 |
| TRUE | Snao Chat | 1 |
| TRUE | snapchat | 3 |
| TRUE | Snapchat | 1 |
| TRUE | SnapChat | 1 |
| TRUE | webmd, mayoclinic,wikipedia, va | 1 |
| TRUE | www.coping-with-epilepsy.com | 1 |

Number of social media platforms used (excluding Facebook):

|  |  |
| --- | --- |
| countSocialMediaExclFB | n |
| 0 | 347 |
| 1 | 138 |
| 2 | 68 |
| 3 | 21 |
| 4 | 11 |
| 5 | 2 |

|  |  |
| --- | --- |
| comm\_inperson | n |
| Every few weeks or less often | 169 |
| Once a week | 70 |
| A few times a week | 114 |
| Once a day | 58 |
| Several times a day | 175 |
| NA | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| indSuicideConsideredEver | indSuicideConsidered12mo | indSuicideAttempt | countSuicideAttempts | n |
| FALSE | FALSE | FALSE | 0 | 330 |
| TRUE | FALSE | FALSE | 0 | 140 |
| TRUE | FALSE | TRUE | 1 | 31 |
| TRUE | TRUE | FALSE | 0 | 29 |
| TRUE | FALSE | TRUE | 2 | 16 |
| TRUE | TRUE | TRUE | 1 | 11 |
| TRUE | FALSE | TRUE | 3 | 9 |
| TRUE | TRUE | TRUE | 3 | 8 |
| TRUE | TRUE | TRUE | 2 | 7 |
| TRUE | FALSE | TRUE | 4 | 2 |
| TRUE | FALSE | TRUE | 5 | 2 |
| TRUE | TRUE | TRUE | 5 | 1 |
| NA | NA | NA | NaN | 1 |

Of the 358 who had social contact on Facebook at least daily, 167 (47%) also had at least daily in-person social contact while 191 (53%) had in-person social contact less than daily, a non-significant difference (p = 0.224).

Of the 233 who had in-person social contact at least daily, 167 (72%) also had at least daily social contact on Facebook while 66 (28%) had social contact on Facebook less than daily, a significant difference (p = 0.000).

# Research Question 1

**Is perceived social support received from Facebook (FMSS) associated with lower rates of**

* Positive screens for psychiatric disorders
  + PC-PTSD
  + PHQ-2
  + AUDIT-C
* Positive screen for suicidality?
  + DSI-SS

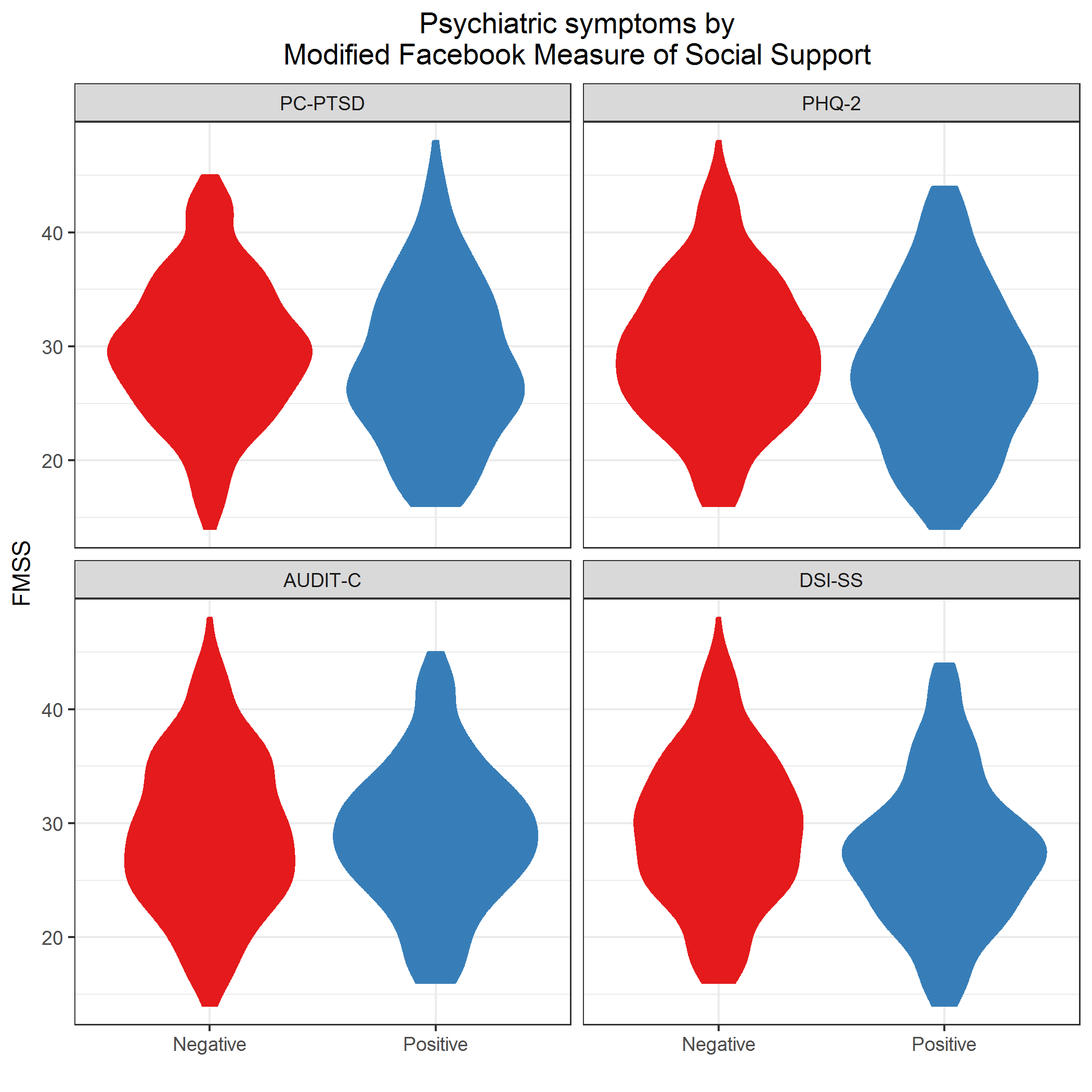
## Unadjusted comparisons

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indPTSD | mean | sd | min | max | n | freq |
| fmss | FALSE | 29.7 | 6.3 | 14 | 45 | 309 | 54.2% |
| fmss | TRUE | 28.3 | 6.8 | 16 | 48 | 261 | 45.8% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indPHQ | mean | sd | min | max | n | freq |
| fmss | FALSE | 29.5 | 6.4 | 16 | 48 | 412 | 72.2% |
| fmss | TRUE | 27.9 | 6.9 | 14 | 44 | 159 | 27.8% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indAuditC | mean | sd | min | max | n | freq |
| fmss | FALSE | 29.2 | 6.8 | 14 | 48 | 335 | 58.9% |
| fmss | TRUE | 29.0 | 6.3 | 16 | 45 | 234 | 41.1% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indDSISS | mean | sd | min | max | n | freq |
| fmss | FALSE | 29.5 | 6.6 | 16 | 48 | 442 | 77.5% |
| fmss | TRUE | 27.6 | 6.4 | 14 | 44 | 128 | 22.5% |



plot of chunk plot2GroupsRQ1

## Adjusted comparisons

## fmss fmssZ  
## fmss 6.565197 0  
## fmssZ 0.000000 1

Filter subjects with missing covariates.

### PC-PTSD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.841 | 0.085 | -2.053 | 0.040 |
| Unadjusted | fmssZ | 0.808 | 0.086 | -2.492 | 0.013 |
| Adjusted | (Intercept) | 0.506 | 0.130 | -5.233 | 0.000 |
| Adjusted | fmssZ | 0.812 | 0.091 | -2.281 | 0.023 |
| Adjusted | countSocialMediaExclFB | 1.046 | 0.092 | 0.482 | 0.630 |
| Adjusted | indSuicideConsideredEverTRUE | 2.154 | 0.193 | 3.980 | 0.000 |
| Adjusted | countSuicideAttempts | 1.742 | 0.159 | 3.482 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 784.577 | 568 | -389.135 | 782.270 | 790.958 | 778.270 | 567 |
| Adjusted | 784.577 | 568 | -361.835 | 733.669 | 755.389 | 723.669 | 564 |

### PHQ-2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.382 | 0.095 | -10.185 | 0.000 |
| Unadjusted | fmssZ | 0.775 | 0.096 | -2.648 | 0.008 |
| Adjusted | (Intercept) | 0.207 | 0.161 | -9.791 | 0.000 |
| Adjusted | fmssZ | 0.799 | 0.101 | -2.225 | 0.026 |
| Adjusted | countSocialMediaExclFB | 0.919 | 0.102 | -0.824 | 0.410 |
| Adjusted | indSuicideConsideredEverTRUE | 3.131 | 0.216 | 5.293 | 0.000 |
| Adjusted | countSuicideAttempts | 1.306 | 0.121 | 2.198 | 0.028 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 674.83 | 569 | -333.825 | 671.651 | 680.342 | 667.651 | 568 |
| Adjusted | 674.83 | 569 | -308.510 | 627.021 | 648.749 | 617.021 | 565 |

### AUDIT-C

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.701 | 0.085 | -4.174 | 0.000 |
| Unadjusted | fmssZ | 0.964 | 0.085 | -0.431 | 0.666 |
| Adjusted | (Intercept) | 0.602 | 0.126 | -4.028 | 0.000 |
| Adjusted | fmssZ | 0.964 | 0.087 | -0.426 | 0.670 |
| Adjusted | countSocialMediaExclFB | 1.067 | 0.088 | 0.738 | 0.460 |
| Adjusted | indSuicideConsideredEverTRUE | 1.354 | 0.189 | 1.603 | 0.109 |
| Adjusted | countSuicideAttempts | 0.908 | 0.121 | -0.796 | 0.426 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 769.717 | 567 | -384.766 | 773.531 | 782.216 | 769.531 | 566 |
| Adjusted | 769.717 | 567 | -383.075 | 776.150 | 797.860 | 766.150 | 563 |

### DSI-SS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.283 | 0.103 | -12.325 | 0.000 |
| Unadjusted | fmssZ | 0.739 | 0.104 | -2.904 | 0.004 |
| Adjusted | (Intercept) | 0.094 | 0.210 | -11.295 | 0.000 |
| Adjusted | fmssZ | 0.748 | 0.113 | -2.564 | 0.010 |
| Adjusted | countSocialMediaExclFB | 1.016 | 0.108 | 0.151 | 0.880 |
| Adjusted | indSuicideConsideredEverTRUE | 5.622 | 0.252 | 6.845 | 0.000 |
| Adjusted | countSuicideAttempts | 1.327 | 0.121 | 2.336 | 0.020 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 607.188 | 569 | -299.242 | 602.484 | 611.175 | 598.484 | 568 |
| Adjusted | 607.188 | 569 | -257.578 | 525.156 | 546.884 | 515.156 | 565 |

## Additional questions

Some issues that additional analysis could clarify is whether people have a tendency to substitute social contact on social media for in-person social contact, and whether that substitution is bad for your emotional well-being. It would be interesting to look at:

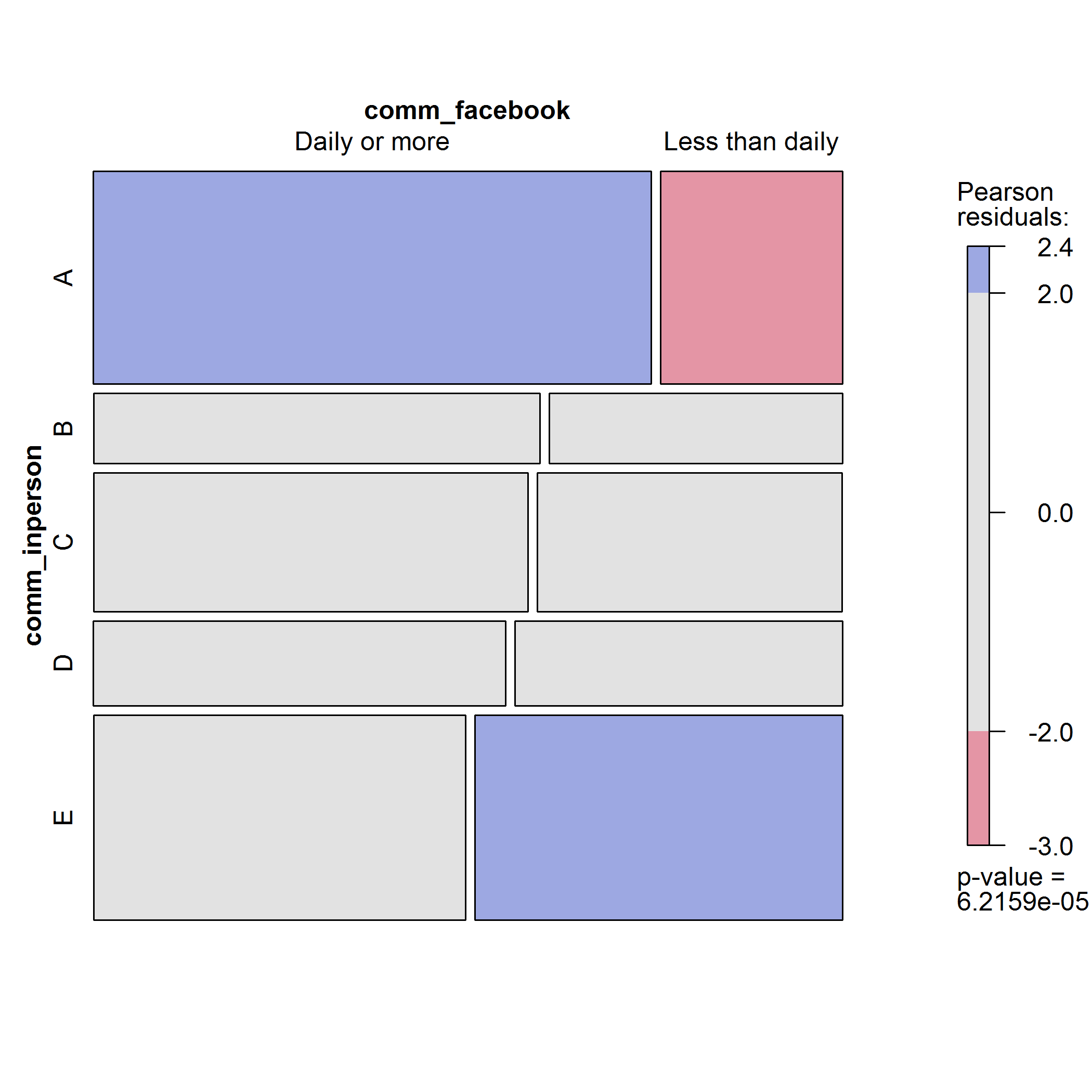
* Do people who spend a lot of time (or frequently use) Facebook spend less time meeting up in-person (i.e., possibly substitute one form of social contact for another)? Variables: comm\_facebook, fb\_freq, comm\_inperson
* Do people who spend a lot of time (or frequently use) Facebook and spend less time in-person have higher risk for psychiatric disorders?

## $table  
## fb\_freq  
## comm\_facebook Less than daily Daily or more Sum  
## Less than daily 59 170 229  
## Daily or more 2 354 356  
## Sum 61 524 585  
##   
## $expected  
## fb\_freq  
## comm\_facebook Less than daily Daily or more  
## Less than daily 23.87863 205.1214  
## Daily or more 37.12137 318.8786  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: T  
## X-squared = 92.089, df = 1, p-value < 2.2e-16

## $table  
## comm\_inperson  
## comm\_facebook Less than daily Daily or more Sum  
## Less than daily 162 66 228  
## Daily or more 191 167 358  
## Sum 353 233 586  
##   
## $expected  
## comm\_inperson  
## comm\_facebook Less than daily Daily or more  
## Less than daily 137.3447 90.65529  
## Daily or more 215.6553 142.34471  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: T  
## X-squared = 17.489, df = 1, p-value = 2.89e-05

## $table  
## comm\_inperson  
## fb\_freq Less than daily Daily or more Sum  
## Less than daily 37 23 60  
## Daily or more 314 210 524  
## Sum 351 233 584  
##   
## $expected  
## comm\_inperson  
## fb\_freq Less than daily Daily or more  
## Less than daily 36.06164 23.93836  
## Daily or more 314.93836 209.06164  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: T  
## X-squared = 0.014885, df = 1, p-value = 0.9029

## $table  
## comm\_facebook  
## comm\_inperson Daily or more Less than daily Sum  
## A 132 43 175  
## B 35 23 58  
## C 67 47 114  
## D 39 31 70  
## E 85 84 169  
## Sum 358 228 586  
##   
## $expected  
## comm\_facebook  
## comm\_inperson Daily or more Less than daily  
## A 106.91126 68.08874  
## B 35.43345 22.56655  
## C 69.64505 44.35495  
## D 42.76451 27.23549  
## E 103.24573 65.75427  
##   
## $residual  
## comm\_facebook  
## comm\_inperson Daily or more Less than daily  
## A 2.42642612 -3.04047308  
## B -0.07281643 0.09124383  
## C -0.31694868 0.39715775  
## D -0.57566015 0.72134040  
## E -1.79566483 2.25008729  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 24.543, df = 4, p-value = 6.216e-05



plot of chunk unnamed-chunk-39

## FMSS items

Closely exam FMSS items 1, 2, 3, and 11

* fmss\_r1 For you, how good is Facebook for getting real help or support?
* fmss\_r2 For the support you get on Facebook, how much practical help is it?
* fmss\_r3 How much does the support you get on Facebook make you feel better?
* fmss\_r11 How close to people does Facebook make you feel?

## $table  
## fmss\_r1  
## indPHQ Not at all A little Somewhat Very or Extremely Sum  
## FALSE 146 161 88 25 420  
## TRUE 61 55 33 15 164  
## Sum 207 216 121 40 584  
##   
## $expected  
## fmss\_r1  
## indPHQ Not at all A little Somewhat Very or Extremely  
## FALSE 148.86986 155.34247 87.02055 28.76712  
## TRUE 58.13014 60.65753 33.97945 11.23288  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 2.7267, df = 3, p-value = 0.4357

## $table  
## fmss\_r2  
## indPHQ None A little Some Quite a bit or A lot Sum  
## FALSE 132 160 93 34 419  
## TRUE 59 58 27 20 164  
## Sum 191 218 120 54 583  
##   
## $expected  
## fmss\_r2  
## indPHQ None A little Some Quite a bit or A lot  
## FALSE 137.27101 156.67581 86.24357 38.80961  
## TRUE 53.72899 61.32419 33.75643 15.19039  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 4.9707, df = 3, p-value = 0.174

## $table  
## fmss\_r3  
## indPHQ Not at all A little Somewhat Quite a bit or A lot Sum  
## FALSE 132 149 87 51 419  
## TRUE 58 57 33 16 164  
## Sum 190 206 120 67 583  
##   
## $expected  
## fmss\_r3  
## indPHQ Not at all A little Somewhat Quite a bit or A lot  
## FALSE 136.55232 148.05146 86.24357 48.15266  
## TRUE 53.44768 57.94854 33.75643 18.84734  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 1.1832, df = 3, p-value = 0.757

## $table  
## fmss\_r11  
## indPHQ Not at all A little Somewhat Very or Extremely Sum  
## FALSE 77 192 126 26 421  
## TRUE 49 53 56 6 164  
## Sum 126 245 182 32 585  
##   
## $expected  
## fmss\_r11  
## indPHQ Not at all A little Somewhat Very or Extremely  
## FALSE 90.67692 176.31624 130.97778 23.02906  
## TRUE 35.32308 68.68376 51.02222 8.97094  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 14.377, df = 3, p-value = 0.002434

## $table  
## fmss\_r1  
## indDSISS Not at all A little Somewhat Very or Extremely Sum  
## FALSE 157 164 98 33 452  
## TRUE 51 50 23 7 131  
## Sum 208 214 121 40 583  
##   
## $expected  
## fmss\_r1  
## indDSISS Not at all A little Somewhat Very or Extremely  
## FALSE 161.26244 165.91424 93.81132 31.012007  
## TRUE 46.73756 48.08576 27.18868 8.987993  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 1.9992, df = 3, p-value = 0.5726

## $table  
## fmss\_r2  
## indDSISS None A little Some Quite a bit or A lot Sum  
## FALSE 148 159 101 43 451  
## TRUE 43 58 19 11 131  
## Sum 191 217 120 54 582  
##   
## $expected  
## fmss\_r2  
## indDSISS None A little Some Quite a bit or A lot  
## FALSE 148.00859 168.15636 92.98969 41.84536  
## TRUE 42.99141 48.84364 27.01031 12.15464  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 5.4222, df = 3, p-value = 0.1434

## $table  
## fmss\_r3  
## indDSISS Not at all A little Somewhat Quite a bit or A lot Sum  
## FALSE 146 153 92 59 450  
## TRUE 44 53 27 8 132  
## Sum 190 206 119 67 582  
##   
## $expected  
## fmss\_r3  
## indDSISS Not at all A little Somewhat Quite a bit or A lot  
## FALSE 146.90722 159.27835 92.01031 51.80412  
## TRUE 43.09278 46.72165 26.98969 15.19588  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 5.5229, df = 3, p-value = 0.1373

## $table  
## fmss\_r11  
## indDSISS Not at all A little Somewhat Very or Extremely Sum  
## FALSE 94 190 146 22 452  
## TRUE 33 53 36 10 132  
## Sum 127 243 182 32 584  
##   
## $expected  
## fmss\_r11  
## indDSISS Not at all A little Somewhat Very or Extremely  
## FALSE 98.29452 188.07534 140.86301 24.767123  
## TRUE 28.70548 54.92466 41.13699 7.232877  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test  
##   
## data: T  
## X-squared = 3.1139, df = 3, p-value = 0.3744

### PHQ-2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.410 | 0.142 | -6.281 | 0.000 |
| Unadjusted | fmssSubscore | 0.987 | 0.034 | -0.384 | 0.701 |
| Adjusted | (Intercept) | 0.237 | 0.185 | -7.794 | 0.000 |
| Adjusted | fmssSubscore | 0.969 | 0.037 | -0.868 | 0.385 |
| Adjusted | countSocialMediaExclFB | 0.883 | 0.101 | -1.226 | 0.220 |
| Adjusted | indSuicideConsideredEverTRUE | 3.289 | 0.212 | 5.605 | 0.000 |
| Adjusted | countSuicideAttempts | 1.312 | 0.122 | 2.224 | 0.026 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 691.49 | 580 | -345.671 | 695.342 | 704.072 | 691.342 | 579 |
| Adjusted | 691.49 | 580 | -317.606 | 645.212 | 667.036 | 635.212 | 576 |

### DSI-SS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.343 | 0.150 | -7.126 | 0.000 |
| Unadjusted | fmssSubscore | 0.948 | 0.038 | -1.421 | 0.155 |
| Adjusted | (Intercept) | 0.128 | 0.225 | -9.128 | 0.000 |
| Adjusted | fmssSubscore | 0.906 | 0.042 | -2.328 | 0.020 |
| Adjusted | countSocialMediaExclFB | 0.998 | 0.107 | -0.018 | 0.986 |
| Adjusted | indSuicideConsideredEverTRUE | 5.983 | 0.249 | 7.171 | 0.000 |
| Adjusted | countSuicideAttempts | 1.348 | 0.122 | 2.457 | 0.014 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 620.216 | 580 | -309.076 | 622.153 | 630.882 | 618.153 | 579 |
| Adjusted | 620.216 | 580 | -263.618 | 537.236 | 559.059 | 527.236 | 576 |

## FMSS quartiles

Stratify by FMSS quartile and compare Q1 vs Q4.

## $table  
## fmssQuartile  
## indPHQ Q1: [14,25] Q4: (34,48] Sum  
## FALSE 111 94 205  
## TRUE 63 30 93  
## Sum 174 124 298  
##   
## $expected  
## fmssQuartile  
## indPHQ Q1: [14,25] Q4: (34,48]  
## FALSE 119.69799 85.30201  
## TRUE 54.30201 38.69799  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: T  
## X-squared = 4.3237, df = 1, p-value = 0.03759

## $table  
## fmssQuartile  
## indDSISS Q1: [14,25] Q4: (34,48] Sum  
## FALSE 127 104 231  
## TRUE 47 20 67  
## Sum 174 124 298  
##   
## $expected  
## fmssQuartile  
## indDSISS Q1: [14,25] Q4: (34,48]  
## FALSE 134.87919 96.12081  
## TRUE 39.12081 27.87919  
##   
## $chisq.test  
##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: T  
## X-squared = 4.3153, df = 1, p-value = 0.03777

### PHQ-2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.568 | 0.158 | -3.591 | 0.000 |
| Unadjusted | fmssQuartileQ4: (34,48] | 0.562 | 0.262 | -2.194 | 0.028 |
| Adjusted | (Intercept) | 0.303 | 0.235 | -5.075 | 0.000 |
| Adjusted | fmssQuartileQ4: (34,48] | 0.593 | 0.278 | -1.883 | 0.060 |
| Adjusted | countSocialMediaExclFB | 0.914 | 0.138 | -0.651 | 0.515 |
| Adjusted | indSuicideConsideredEverTRUE | 3.168 | 0.291 | 3.958 | 0.000 |
| Adjusted | countSuicideAttempts | 1.186 | 0.151 | 1.126 | 0.260 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 369.97 | 297 | -182.510 | 369.019 | 376.413 | 365.019 | 296 |
| Adjusted | 369.22 | 296 | -169.349 | 348.699 | 367.167 | 338.699 | 292 |

### DSI-SS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.370 | 0.171 | -5.822 | 0.000 |
| Unadjusted | fmssQuartileQ4: (34,48] | 0.520 | 0.298 | -2.197 | 0.028 |
| Adjusted | (Intercept) | 0.106 | 0.326 | -6.893 | 0.000 |
| Adjusted | fmssQuartileQ4: (34,48] | 0.555 | 0.326 | -1.805 | 0.071 |
| Adjusted | countSocialMediaExclFB | 0.948 | 0.153 | -0.349 | 0.727 |
| Adjusted | indSuicideConsideredEverTRUE | 7.184 | 0.368 | 5.361 | 0.000 |
| Adjusted | countSuicideAttempts | 1.144 | 0.152 | 0.885 | 0.376 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 317.642 | 297 | -156.291 | 316.581 | 323.975 | 312.581 | 296 |
| Adjusted | 317.642 | 297 | -133.646 | 277.292 | 295.778 | 267.292 | 293 |

# Research Question 2

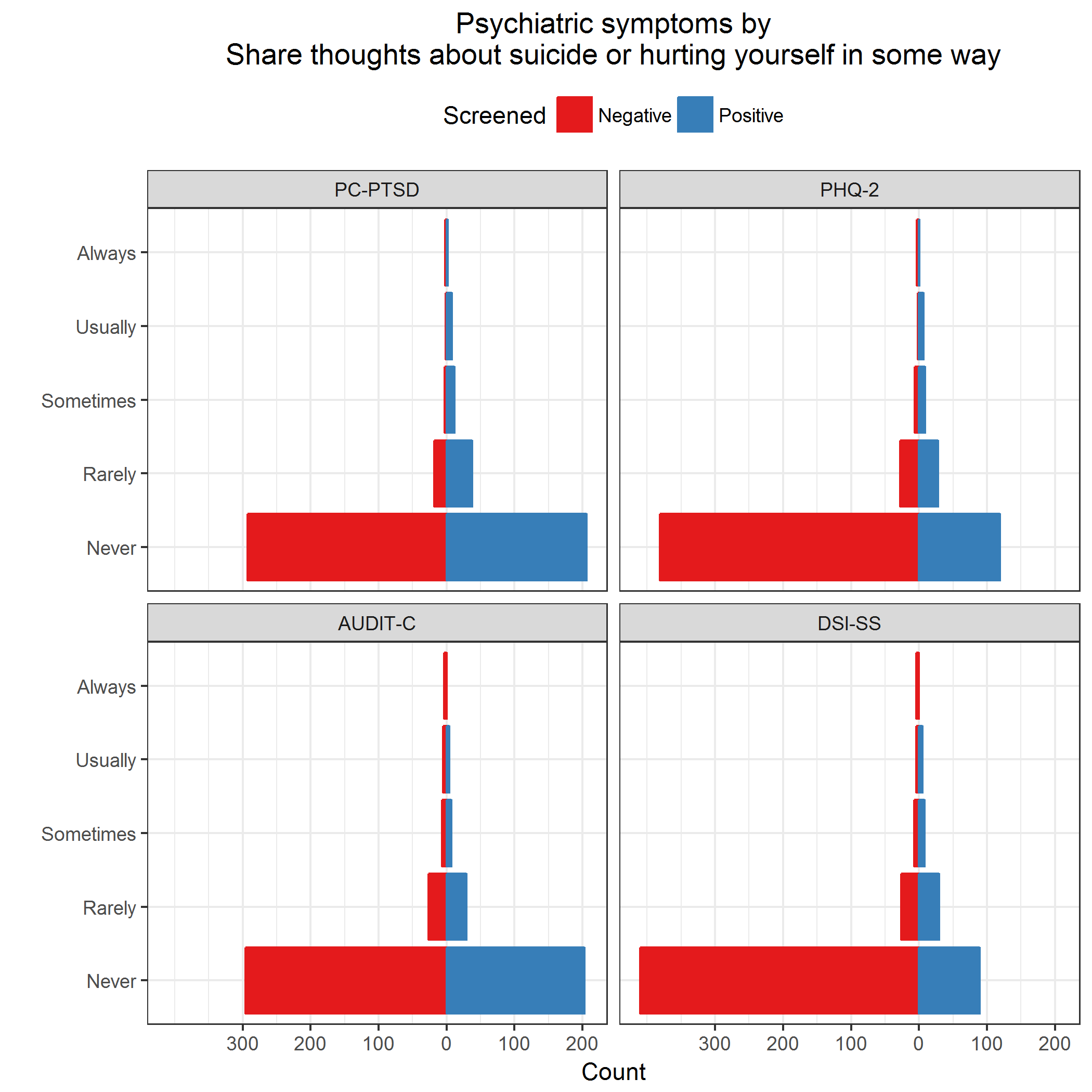
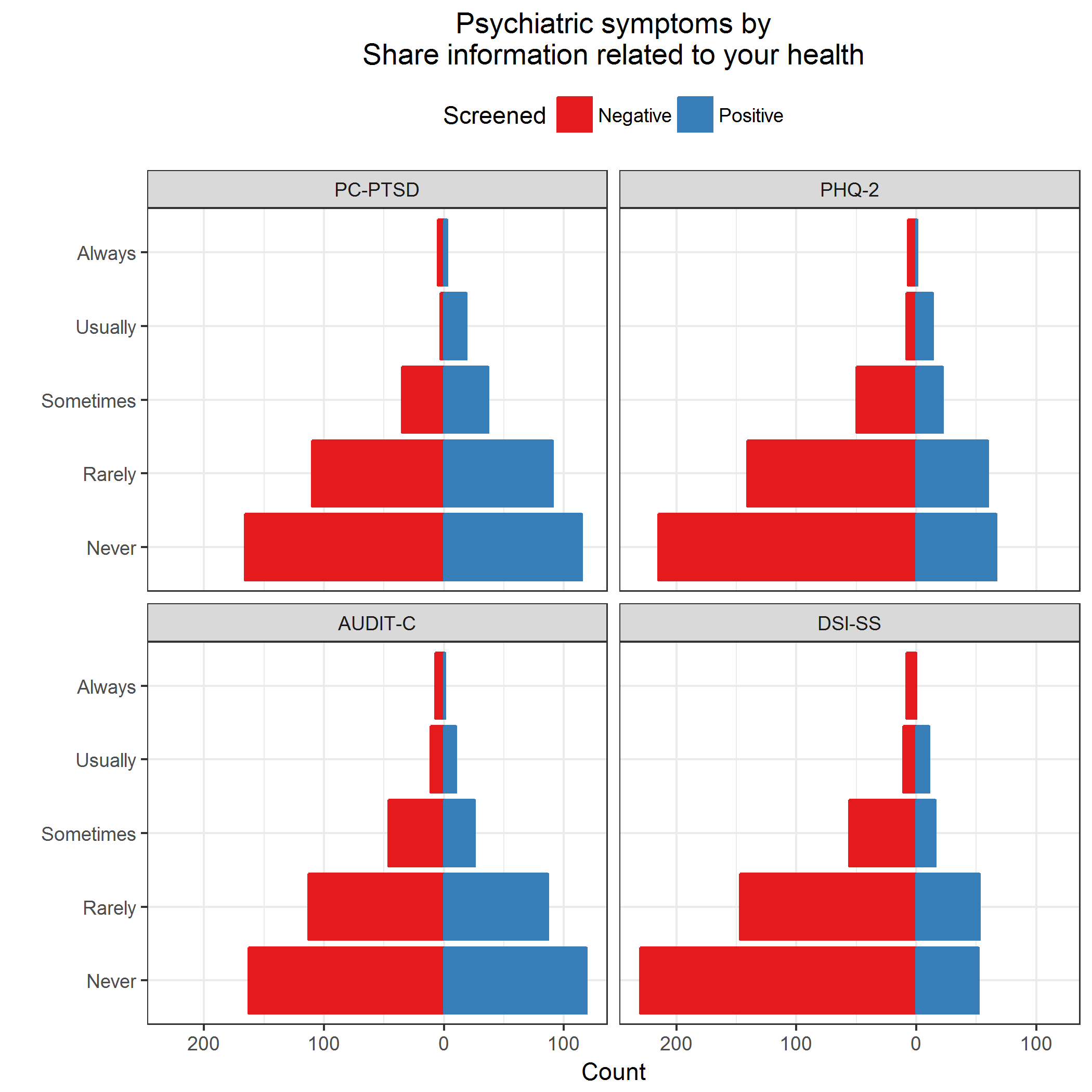
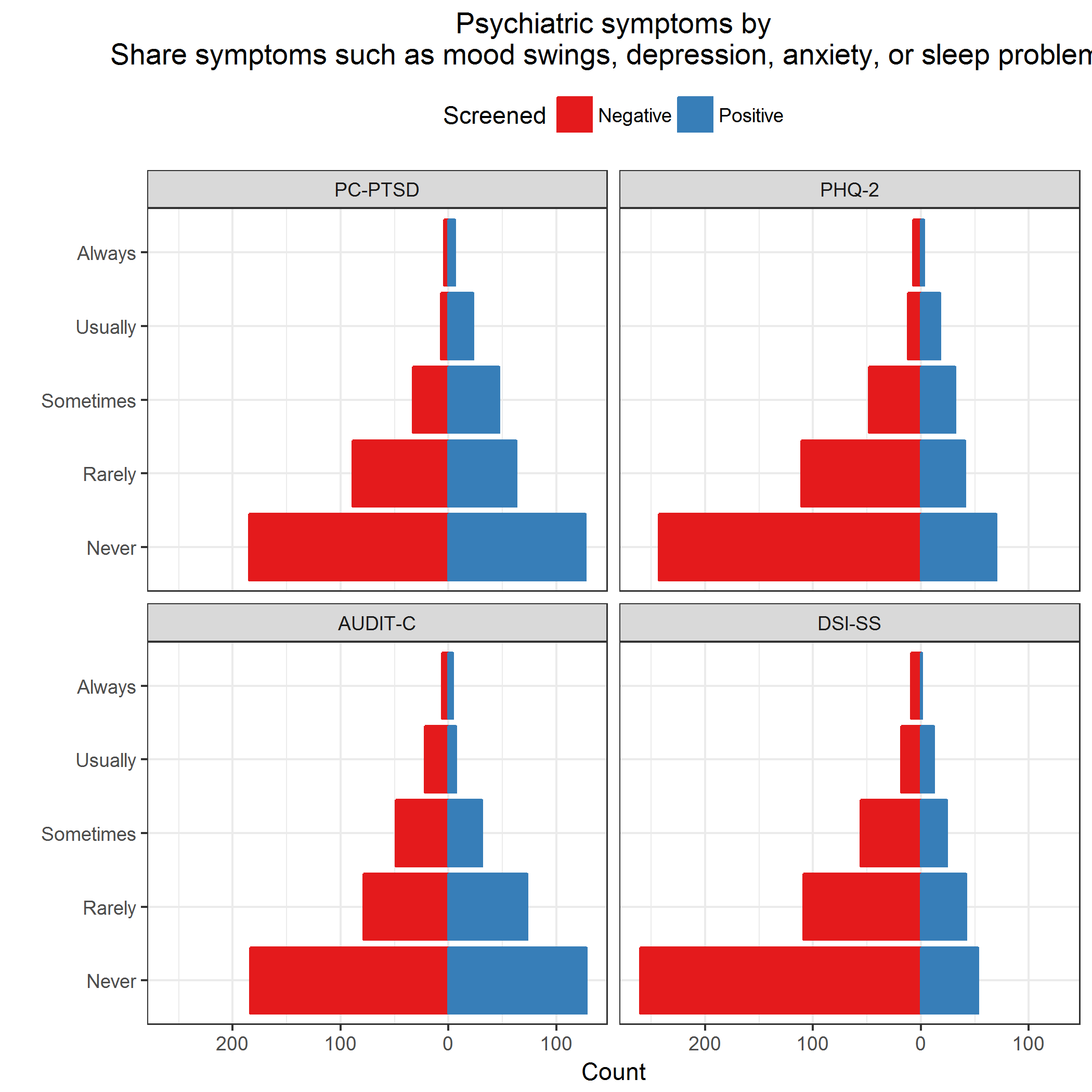
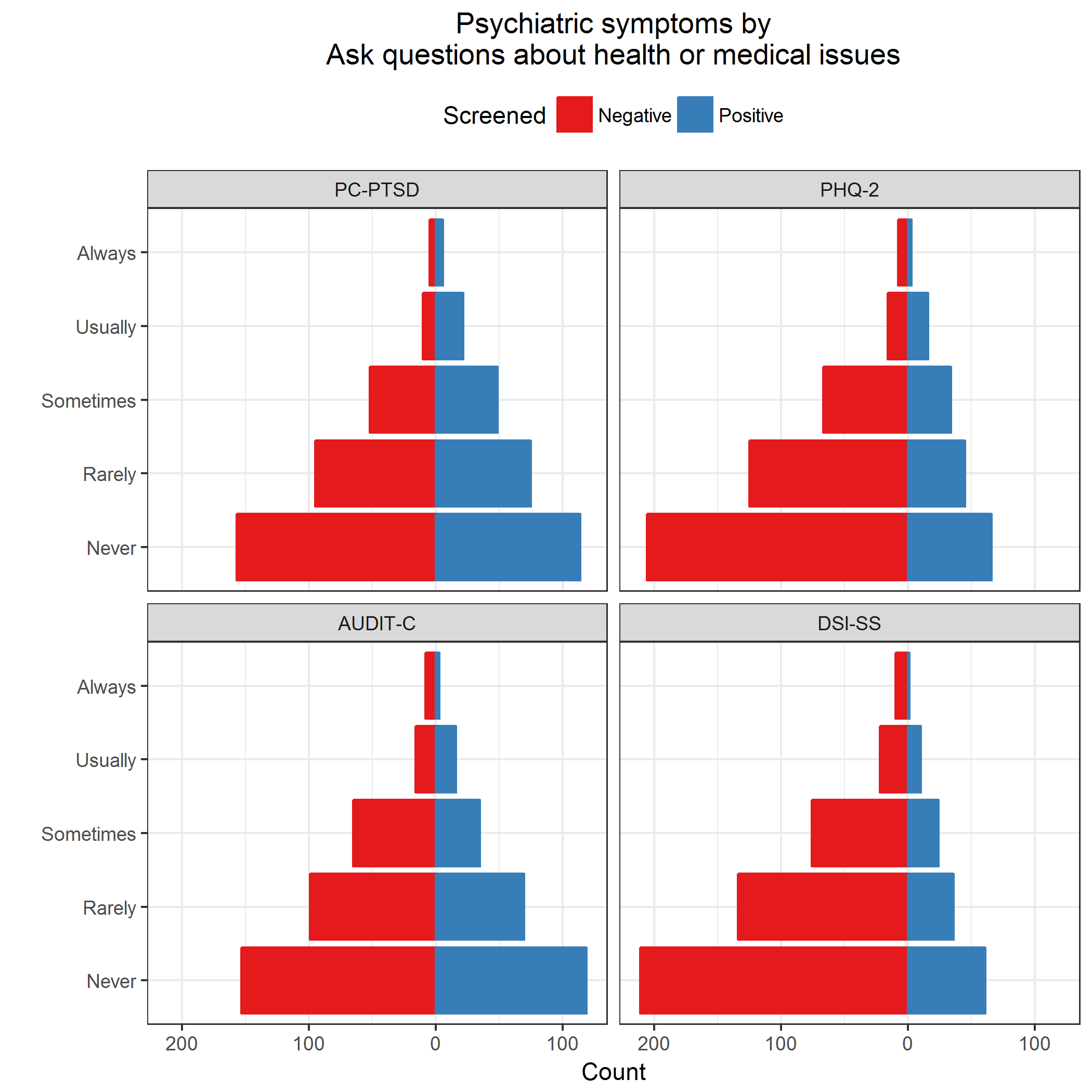
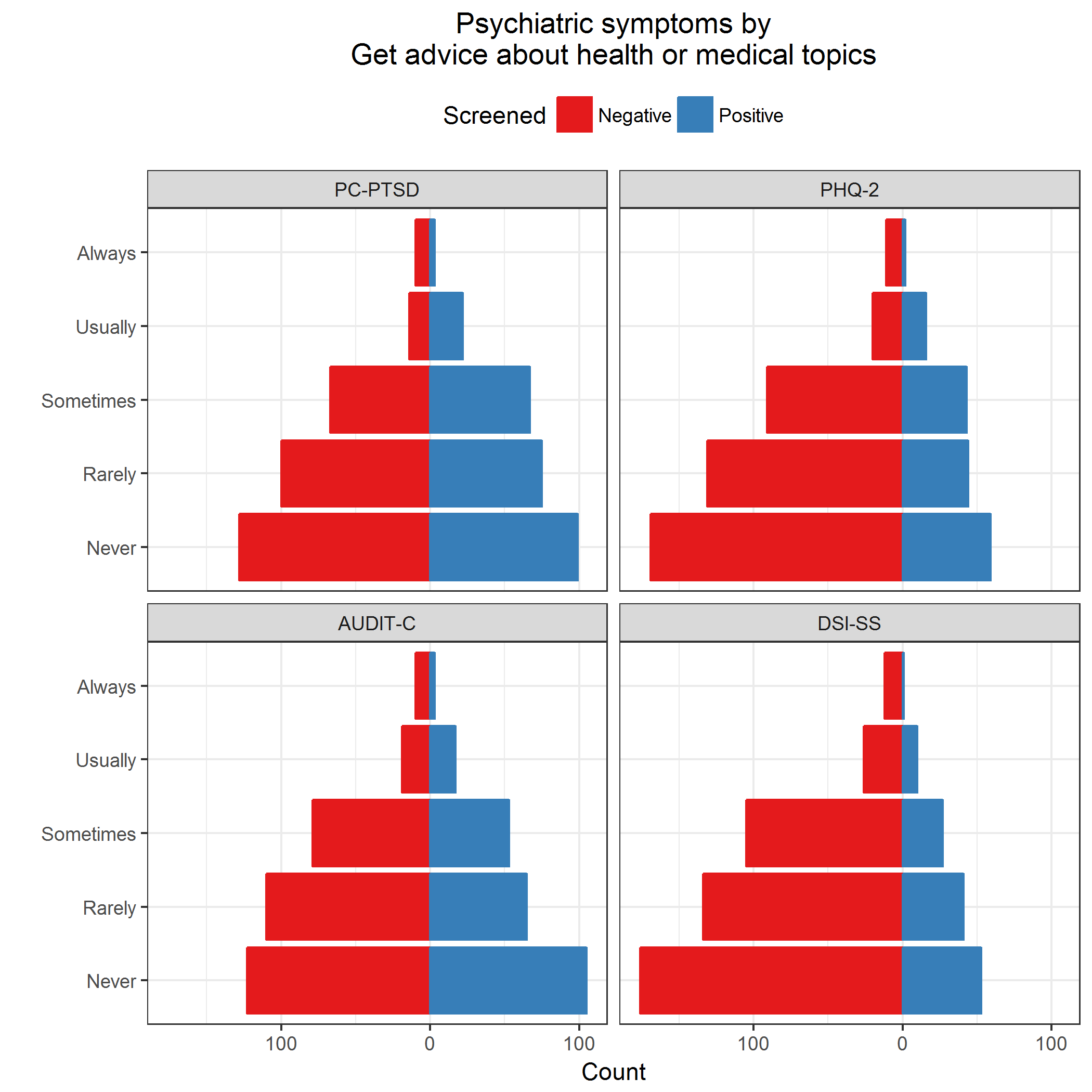
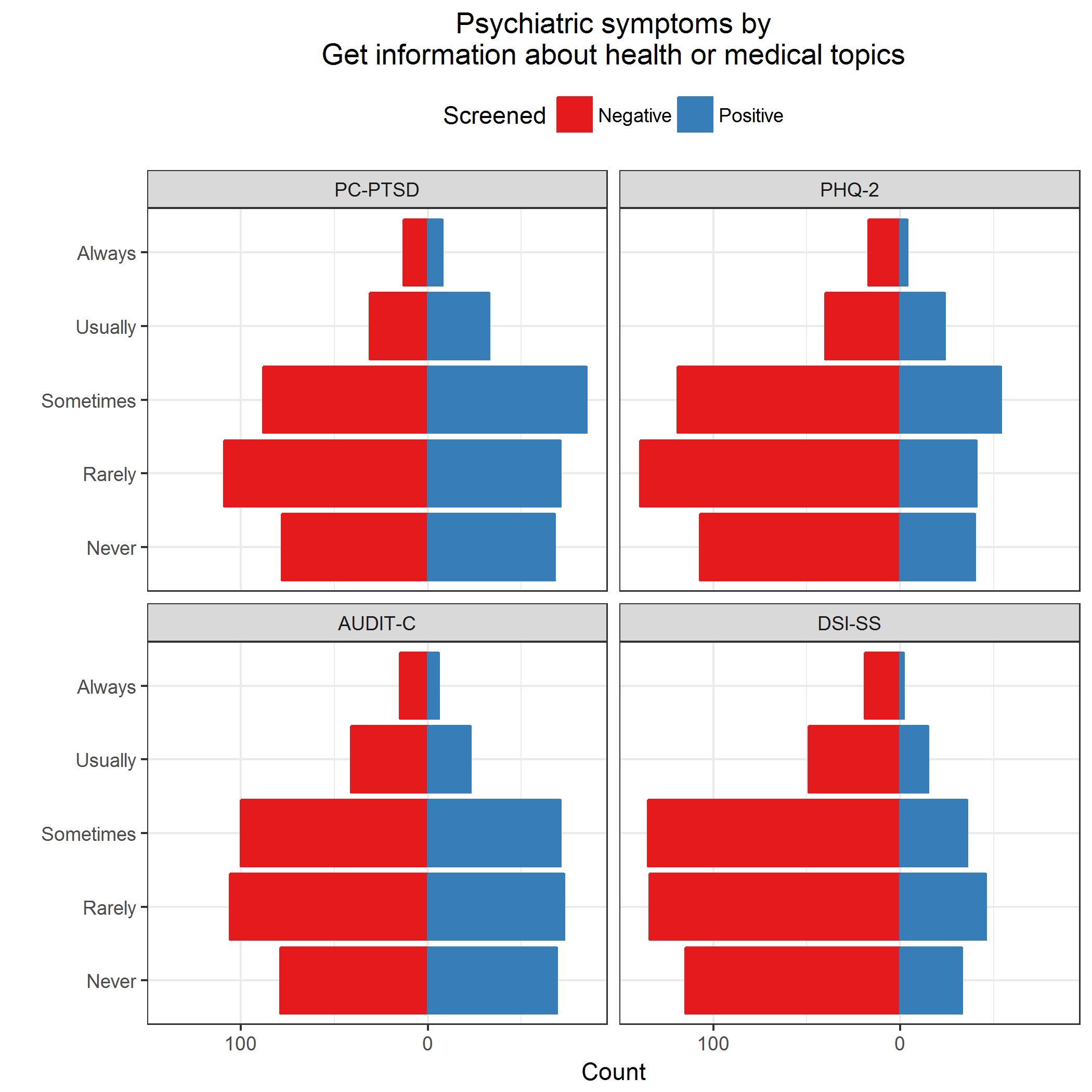
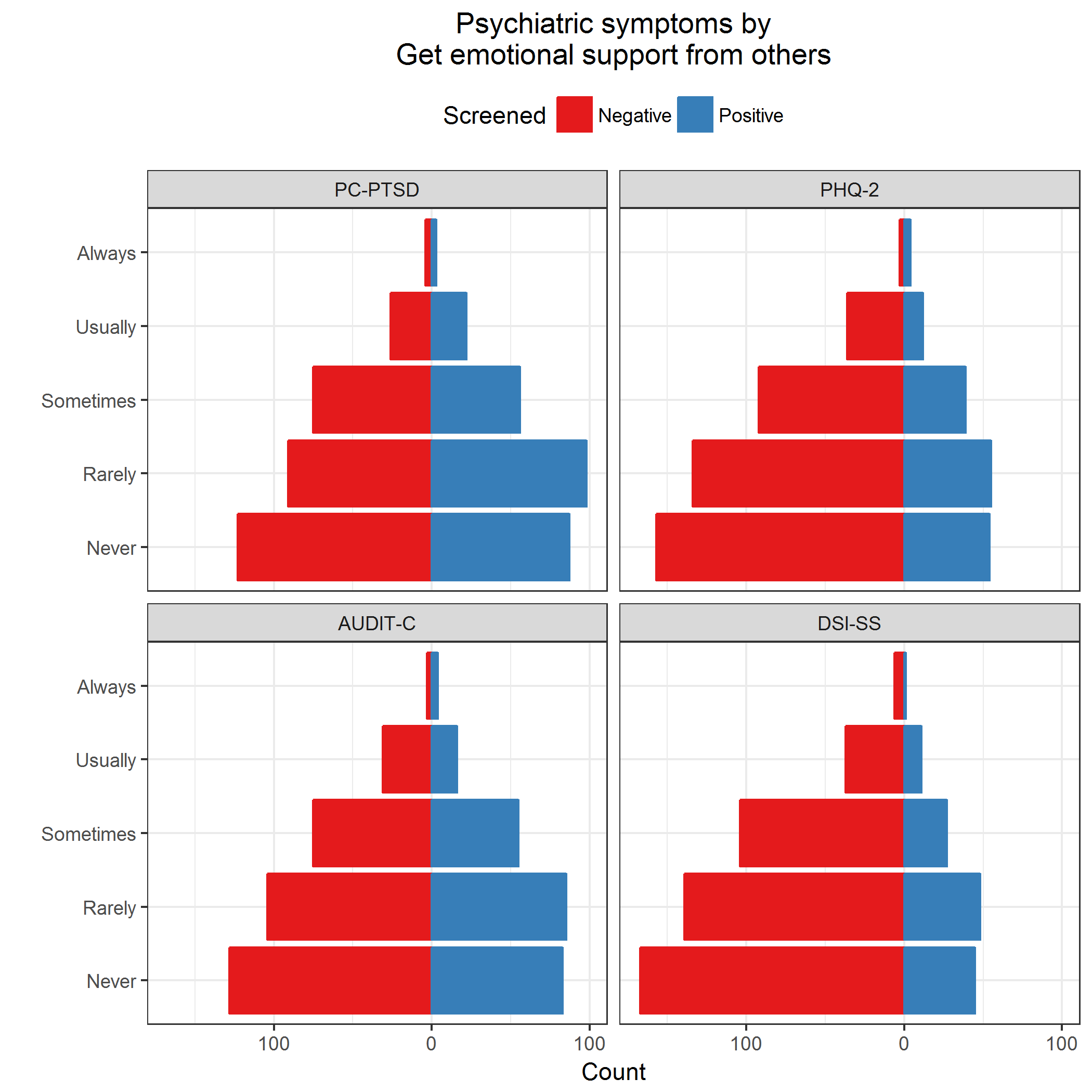
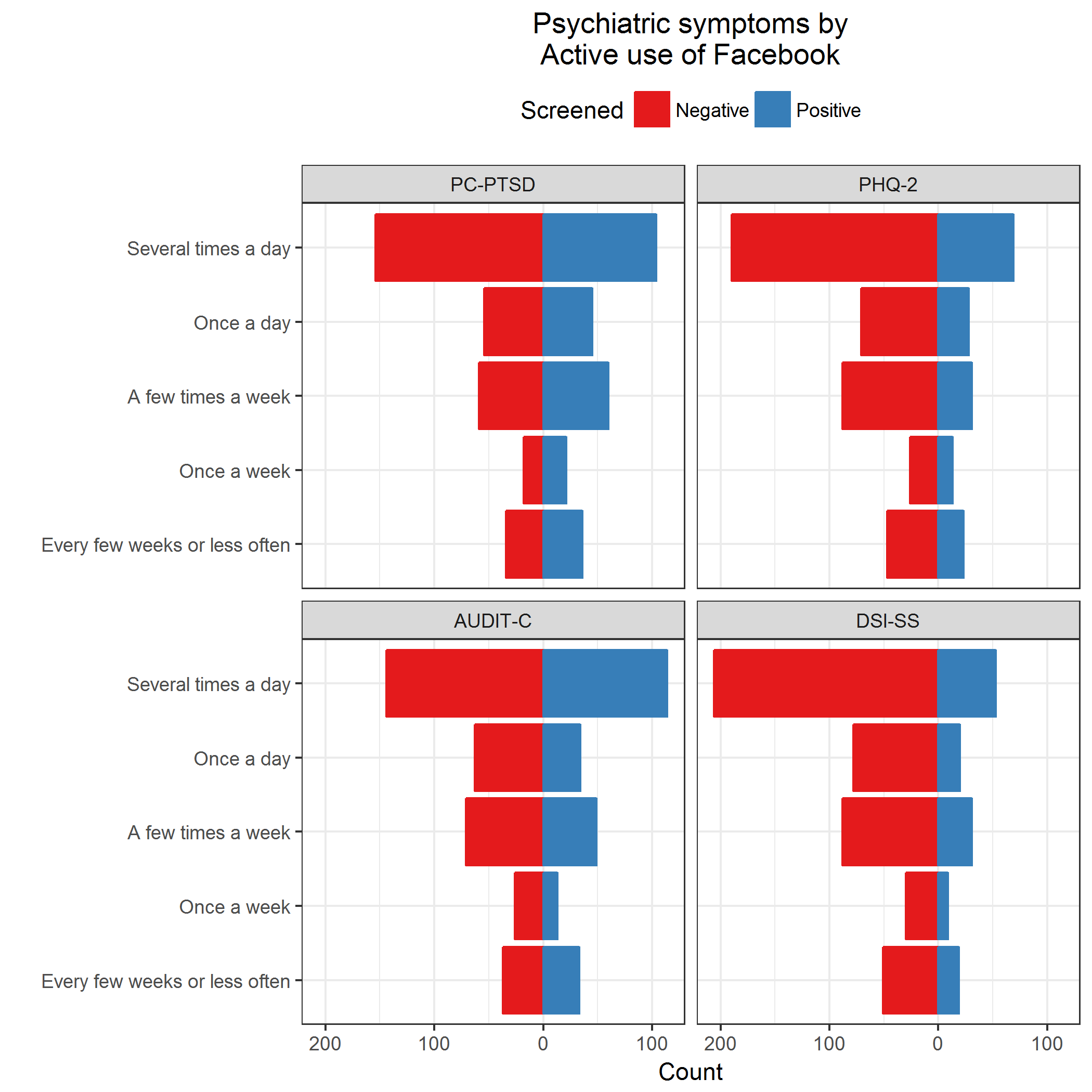
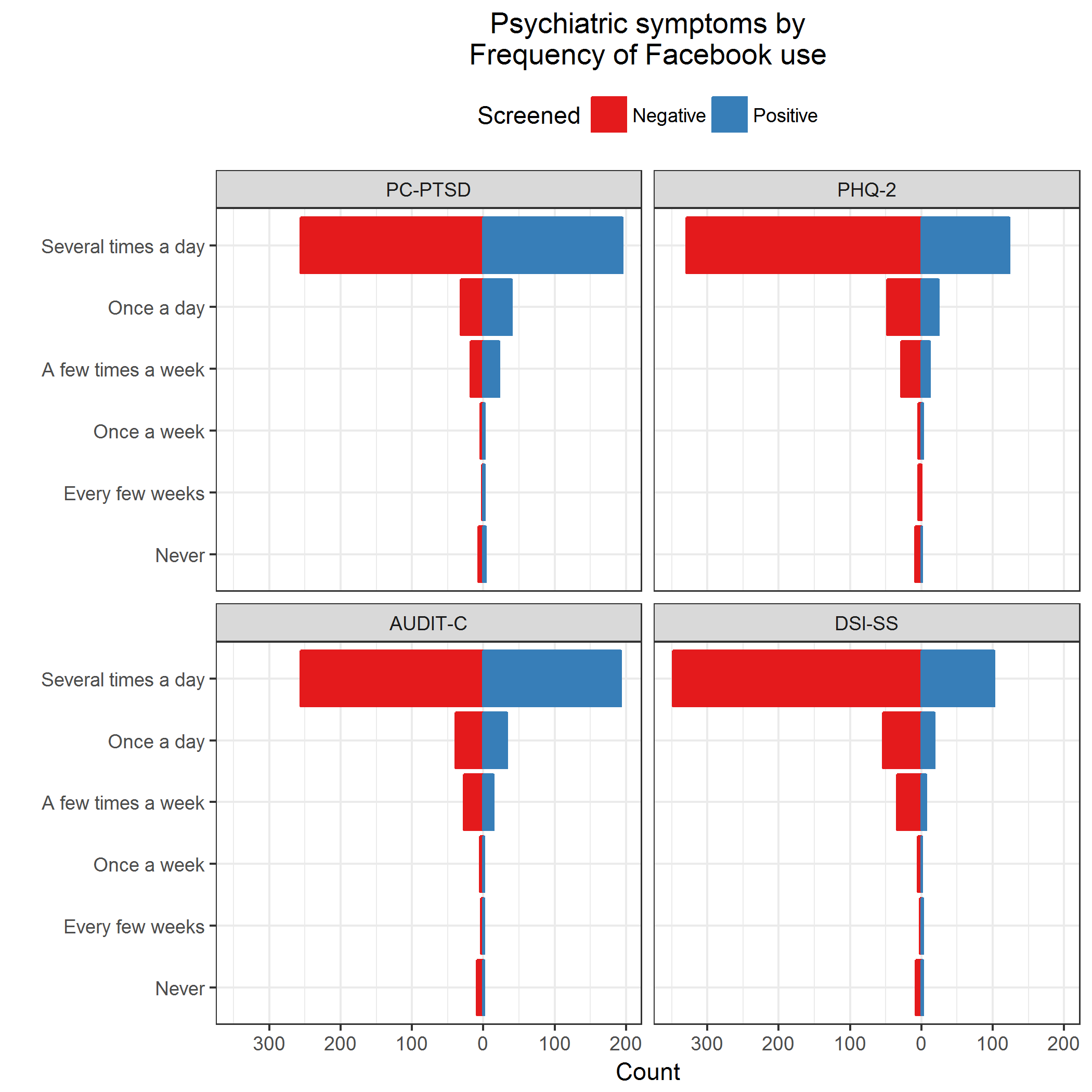
**Are certains features of social media use are associated with positive screens for psychiatric disorders or a positive screen for suicidality?**

* Spending more time on Facebook?
  + Frequency of Facebook use: fb\_freq
  + Active use of Facebook: comm\_facebook
* Sharing more personal or health-related information on social media?
  + Get emotional support from others sm\_emot\_support
  + Get information about health or medical topics sm\_med\_info
  + Get advice about health or medical topics sm\_med\_advice
  + Ask questions about health or medical issues sm\_med\_questions
  + Share symptoms such as mood swings, depression, anxiety, or sleep problems sm\_share\_sympt
  + Share information related to your health sm\_share\_health
  + Share thoughts about suicide or hurting yourself in some way sm\_share\_suicide

## Association between frequency of Facebook use and active use of Facebook

Correlation (Spearman) between frequency of Facebook use and active use of Facebook is 0.457

## Unadjusted comparisons



## Adjusted comparisons

Show the covariates used in the adjusted models.

covar <- c("countSocialMediaExclFB",  
 "indSuicideConsideredEver",  
 "countSuicideAttempts")

Filter subjects with missing covariates.

Relabel factors; replace spaces with underscores.

### PC-PTSD vs Frequency of Facebook use

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.333 | 5 | 576 | 0.248 |
| Adjusted | 1.388 | 5 | 573 | 0.227 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.429 | 0.690 | -1.228 | 0.220 |
| Unadjusted | fb\_freqEvery\_few\_weeks | 2.333 | 1.215 | 0.697 | 0.486 |
| Unadjusted | fb\_freqOnce\_a\_week | 1.167 | 1.107 | 0.139 | 0.889 |
| Unadjusted | fb\_freqA\_few\_times\_a\_week | 2.852 | 0.760 | 1.379 | 0.168 |
| Unadjusted | fb\_freqOnce\_a\_day | 2.917 | 0.730 | 1.467 | 0.142 |
| Unadjusted | fb\_freqSeveral\_times\_a\_day | 1.768 | 0.697 | 0.818 | 0.413 |
| Adjusted | (Intercept) | 0.324 | 0.705 | -1.599 | 0.110 |
| Adjusted | fb\_freqEvery\_few\_weeks | 2.248 | 1.255 | 0.645 | 0.519 |
| Adjusted | fb\_freqOnce\_a\_week | 0.995 | 1.127 | -0.005 | 0.996 |
| Adjusted | fb\_freqA\_few\_times\_a\_week | 2.743 | 0.773 | 1.306 | 0.192 |
| Adjusted | fb\_freqOnce\_a\_day | 2.194 | 0.745 | 1.055 | 0.291 |
| Adjusted | fb\_freqSeveral\_times\_a\_day | 1.385 | 0.709 | 0.460 | 0.646 |
| Adjusted | countSocialMediaExclFB | 1.048 | 0.091 | 0.516 | 0.606 |
| Adjusted | indSuicideConsideredEverTRUE | 2.172 | 0.192 | 4.048 | 0.000 |
| Adjusted | countSuicideAttempts | 1.768 | 0.163 | 3.497 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 801.427 | 581 | -397.319 | 806.637 | 832.836 | 794.637 | 576 |
| Adjusted | 801.427 | 581 | -369.359 | 756.719 | 796.017 | 738.719 | 573 |

### PC-PTSD vs Active use of Facebook

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.456 | 4 | 579 | 0.214 |
| Adjusted | 2.056 | 4 | 576 | 0.085 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 1.059 | 0.239 | 0.239 | 0.811 |
| Unadjusted | comm\_facebookOnce\_a\_week | 1.102 | 0.400 | 0.242 | 0.809 |
| Unadjusted | comm\_facebookA\_few\_times\_a\_week | 0.944 | 0.302 | -0.189 | 0.850 |
| Unadjusted | comm\_facebookOnce\_a\_day | 0.787 | 0.313 | -0.765 | 0.444 |
| Unadjusted | comm\_facebookSeveral\_times\_a\_day | 0.638 | 0.271 | -1.661 | 0.097 |
| Adjusted | (Intercept) | 0.695 | 0.259 | -1.406 | 0.160 |
| Adjusted | comm\_facebookOnce\_a\_week | 1.032 | 0.422 | 0.074 | 0.941 |
| Adjusted | comm\_facebookA\_few\_times\_a\_week | 0.831 | 0.318 | -0.584 | 0.559 |
| Adjusted | comm\_facebookOnce\_a\_day | 0.761 | 0.328 | -0.835 | 0.404 |
| Adjusted | comm\_facebookSeveral\_times\_a\_day | 0.531 | 0.288 | -2.201 | 0.028 |
| Adjusted | countSocialMediaExclFB | 1.070 | 0.092 | 0.739 | 0.460 |
| Adjusted | indSuicideConsideredEverTRUE | 2.213 | 0.193 | 4.120 | 0.000 |
| Adjusted | countSuicideAttempts | 1.797 | 0.163 | 3.592 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 804.596 | 583 | -399.368 | 808.737 | 830.586 | 798.737 | 579 |
| Adjusted | 804.596 | 583 | -369.465 | 754.931 | 789.890 | 738.931 | 576 |

### PC-PTSD vs Get emotional support from others

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.156 | 4 | 579 | 0.329 |
| Adjusted | 0.959 | 4 | 576 | 0.429 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.707 | 0.140 | -2.472 | 0.013 |
| Unadjusted | sm\_emot\_supportRarely | 1.507 | 0.202 | 2.027 | 0.043 |
| Unadjusted | sm\_emot\_supportSometimes | 1.056 | 0.225 | 0.240 | 0.810 |
| Unadjusted | sm\_emot\_supportUsually | 1.196 | 0.322 | 0.557 | 0.578 |
| Unadjusted | sm\_emot\_supportAlways | 1.060 | 0.777 | 0.075 | 0.940 |
| Adjusted | (Intercept) | 0.479 | 0.162 | -4.540 | 0.000 |
| Adjusted | sm\_emot\_supportRarely | 1.318 | 0.214 | 1.292 | 0.196 |
| Adjusted | sm\_emot\_supportSometimes | 0.851 | 0.245 | -0.657 | 0.511 |
| Adjusted | sm\_emot\_supportUsually | 0.964 | 0.347 | -0.105 | 0.917 |
| Adjusted | sm\_emot\_supportAlways | 0.724 | 0.867 | -0.372 | 0.710 |
| Adjusted | countSocialMediaExclFB | 1.041 | 0.093 | 0.430 | 0.667 |
| Adjusted | indSuicideConsideredEverTRUE | 2.131 | 0.192 | 3.948 | 0.000 |
| Adjusted | countSuicideAttempts | 1.814 | 0.164 | 3.625 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 804.596 | 583 | -399.980 | 809.960 | 831.809 | 799.960 | 579 |
| Adjusted | 804.596 | 583 | -371.705 | 759.409 | 794.368 | 743.409 | 576 |

### PC-PTSD vs Get information about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.221 | 4 | 578 | 0.301 |
| Adjusted | 1.147 | 4 | 575 | 0.333 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.872 | 0.166 | -0.827 | 0.408 |
| Unadjusted | sm\_med\_infoRarely | 0.747 | 0.225 | -1.293 | 0.196 |
| Unadjusted | sm\_med\_infoSometimes | 1.095 | 0.225 | 0.402 | 0.687 |
| Unadjusted | sm\_med\_infoUsually | 1.221 | 0.300 | 0.665 | 0.506 |
| Unadjusted | sm\_med\_infoAlways | 0.706 | 0.479 | -0.727 | 0.467 |
| Adjusted | (Intercept) | 0.568 | 0.188 | -3.002 | 0.003 |
| Adjusted | sm\_med\_infoRarely | 0.693 | 0.238 | -1.544 | 0.123 |
| Adjusted | sm\_med\_infoSometimes | 1.036 | 0.241 | 0.147 | 0.883 |
| Adjusted | sm\_med\_infoUsually | 0.998 | 0.323 | -0.005 | 0.996 |
| Adjusted | sm\_med\_infoAlways | 0.605 | 0.530 | -0.948 | 0.343 |
| Adjusted | countSocialMediaExclFB | 1.033 | 0.094 | 0.345 | 0.730 |
| Adjusted | indSuicideConsideredEverTRUE | 2.121 | 0.191 | 3.939 | 0.000 |
| Adjusted | countSuicideAttempts | 1.799 | 0.162 | 3.633 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 803.013 | 582 | -399.042 | 808.084 | 829.925 | 798.084 | 578 |
| Adjusted | 803.013 | 582 | -370.891 | 757.781 | 792.727 | 741.781 | 575 |

### PC-PTSD vs Get advice about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.892 | 4 | 579 | 0.110 |
| Adjusted | 1.918 | 4 | 576 | 0.106 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.773 | 0.134 | -1.920 | 0.055 |
| Unadjusted | sm\_med\_adviceRarely | 0.970 | 0.203 | -0.152 | 0.880 |
| Unadjusted | sm\_med\_adviceSometimes | 1.274 | 0.219 | 1.104 | 0.270 |
| Unadjusted | sm\_med\_adviceUsually | 2.032 | 0.367 | 1.931 | 0.054 |
| Unadjusted | sm\_med\_adviceAlways | 0.388 | 0.672 | -1.410 | 0.159 |
| Adjusted | (Intercept) | 0.498 | 0.160 | -4.368 | 0.000 |
| Adjusted | sm\_med\_adviceRarely | 0.881 | 0.216 | -0.587 | 0.557 |
| Adjusted | sm\_med\_adviceSometimes | 1.181 | 0.233 | 0.713 | 0.476 |
| Adjusted | sm\_med\_adviceUsually | 1.775 | 0.388 | 1.479 | 0.139 |
| Adjusted | sm\_med\_adviceAlways | 0.234 | 0.774 | -1.879 | 0.060 |
| Adjusted | countSocialMediaExclFB | 1.035 | 0.093 | 0.366 | 0.714 |
| Adjusted | indSuicideConsideredEverTRUE | 2.146 | 0.191 | 3.991 | 0.000 |
| Adjusted | countSuicideAttempts | 1.820 | 0.162 | 3.698 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 804.596 | 583 | -398.260 | 806.520 | 828.370 | 796.520 | 579 |
| Adjusted | 804.596 | 583 | -369.332 | 754.663 | 789.623 | 738.663 | 576 |

### PC-PTSD vs Ask questions about health or medical issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 2.187 | 4 | 579 | 0.069 |
| Adjusted | 1.279 | 4 | 576 | 0.277 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.720 | 0.123 | -2.666 | 0.008 |
| Unadjusted | sm\_med\_questionsRarely | 1.097 | 0.198 | 0.468 | 0.640 |
| Unadjusted | sm\_med\_questionsSometimes | 1.309 | 0.234 | 1.150 | 0.250 |
| Unadjusted | sm\_med\_questionsUsually | 3.057 | 0.401 | 2.787 | 0.005 |
| Unadjusted | sm\_med\_questionsAlways | 1.667 | 0.618 | 0.827 | 0.408 |
| Adjusted | (Intercept) | 0.464 | 0.153 | -5.026 | 0.000 |
| Adjusted | sm\_med\_questionsRarely | 1.057 | 0.210 | 0.263 | 0.793 |
| Adjusted | sm\_med\_questionsSometimes | 1.263 | 0.246 | 0.949 | 0.343 |
| Adjusted | sm\_med\_questionsUsually | 2.487 | 0.425 | 2.146 | 0.032 |
| Adjusted | sm\_med\_questionsAlways | 1.184 | 0.669 | 0.252 | 0.801 |
| Adjusted | countSocialMediaExclFB | 1.009 | 0.093 | 0.096 | 0.923 |
| Adjusted | indSuicideConsideredEverTRUE | 2.113 | 0.191 | 3.922 | 0.000 |
| Adjusted | countSuicideAttempts | 1.777 | 0.164 | 3.511 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 804.596 | 583 | -397.622 | 805.243 | 827.093 | 795.243 | 579 |
| Adjusted | 804.596 | 583 | -370.969 | 757.939 | 792.898 | 741.939 | 576 |

### PC-PTSD vs Share symptoms such as mood swings, depression, anxiety, or sleep problems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 5.126 | 4 | 578 | 0.000 |
| Adjusted | 2.812 | 4 | 575 | 0.025 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.681 | 0.116 | -3.325 | 0.001 |
| Unadjusted | sm\_share\_symptRarely | 1.039 | 0.201 | 0.192 | 0.848 |
| Unadjusted | sm\_share\_symptSometimes | 2.091 | 0.255 | 2.895 | 0.004 |
| Unadjusted | sm\_share\_symptUsually | 4.824 | 0.447 | 3.522 | 0.000 |
| Unadjusted | sm\_share\_symptAlways | 2.202 | 0.656 | 1.204 | 0.229 |
| Adjusted | (Intercept) | 0.485 | 0.141 | -5.135 | 0.000 |
| Adjusted | sm\_share\_symptRarely | 0.833 | 0.215 | -0.847 | 0.397 |
| Adjusted | sm\_share\_symptSometimes | 1.508 | 0.273 | 1.502 | 0.133 |
| Adjusted | sm\_share\_symptUsually | 3.395 | 0.465 | 2.629 | 0.009 |
| Adjusted | sm\_share\_symptAlways | 1.353 | 0.719 | 0.420 | 0.674 |
| Adjusted | countSocialMediaExclFB | 1.033 | 0.093 | 0.349 | 0.727 |
| Adjusted | indSuicideConsideredEverTRUE | 2.033 | 0.196 | 3.612 | 0.000 |
| Adjusted | countSuicideAttempts | 1.755 | 0.166 | 3.383 | 0.001 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 803.385 | 582 | -390.311 | 790.621 | 812.462 | 780.621 | 578 |
| Adjusted | 803.385 | 582 | -367.116 | 750.232 | 785.177 | 734.232 | 575 |

### PC-PTSD vs Share information related to your health

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 3.566 | 4 | 578 | 0.007 |
| Adjusted | 2.427 | 4 | 575 | 0.047 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.687 | 0.122 | -3.089 | 0.002 |
| Unadjusted | sm\_share\_healthRarely | 1.205 | 0.187 | 0.997 | 0.319 |
| Unadjusted | sm\_share\_healthSometimes | 1.539 | 0.265 | 1.626 | 0.104 |
| Unadjusted | sm\_share\_healthUsually | 9.222 | 0.633 | 3.509 | 0.000 |
| Unadjusted | sm\_share\_healthAlways | 0.874 | 0.740 | -0.182 | 0.855 |
| Adjusted | (Intercept) | 0.489 | 0.147 | -4.854 | 0.000 |
| Adjusted | sm\_share\_healthRarely | 0.975 | 0.198 | -0.126 | 0.900 |
| Adjusted | sm\_share\_healthSometimes | 1.048 | 0.288 | 0.162 | 0.871 |
| Adjusted | sm\_share\_healthUsually | 6.431 | 0.650 | 2.862 | 0.004 |
| Adjusted | sm\_share\_healthAlways | 0.391 | 0.878 | -1.071 | 0.284 |
| Adjusted | countSocialMediaExclFB | 1.031 | 0.093 | 0.334 | 0.739 |
| Adjusted | indSuicideConsideredEverTRUE | 2.052 | 0.195 | 3.686 | 0.000 |
| Adjusted | countSuicideAttempts | 1.841 | 0.169 | 3.618 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 803.013 | 582 | -391.582 | 793.164 | 815.005 | 783.164 | 578 |
| Adjusted | 803.013 | 582 | -366.040 | 748.080 | 783.025 | 732.080 | 575 |

### PC-PTSD vs Share thoughts about suicide or hurting yourself in some way

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 6.156 | 4 | 577 | 0.000 |
| Adjusted | 3.962 | 4 | 574 | 0.004 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.700 | 0.091 | -3.922 | 0.000 |
| Unadjusted | sm\_share\_suicideRarely | 3.017 | 0.300 | 3.678 | 0.000 |
| Unadjusted | sm\_share\_suicideSometimes | 5.717 | 0.652 | 2.674 | 0.007 |
| Unadjusted | sm\_share\_suicideUsually | 11.434 | 1.065 | 2.289 | 0.022 |
| Unadjusted | sm\_share\_suicideAlways | 1.429 | 1.004 | 0.356 | 0.722 |
| Adjusted | (Intercept) | 0.466 | 0.131 | -5.805 | 0.000 |
| Adjusted | sm\_share\_suicideRarely | 2.388 | 0.315 | 2.763 | 0.006 |
| Adjusted | sm\_share\_suicideSometimes | 3.579 | 0.681 | 1.872 | 0.061 |
| Adjusted | sm\_share\_suicideUsually | 11.374 | 1.072 | 2.269 | 0.023 |
| Adjusted | sm\_share\_suicideAlways | 0.504 | 1.214 | -0.565 | 0.572 |
| Adjusted | countSocialMediaExclFB | 1.029 | 0.093 | 0.309 | 0.757 |
| Adjusted | indSuicideConsideredEverTRUE | 1.910 | 0.194 | 3.328 | 0.001 |
| Adjusted | countSuicideAttempts | 1.812 | 0.167 | 3.552 | 0.000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 802.171 | 581 | -385.954 | 781.908 | 803.74 | 771.908 | 577 |
| Adjusted | 802.171 | 581 | -363.009 | 742.018 | 776.95 | 726.018 | 574 |

### PHQ-2 vs Frequency of Facebook use

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.540 | 5 | 577 | 0.746 |
| Adjusted | 0.412 | 5 | 574 | 0.840 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.111 | 1.054 | -2.084 | 0.037 |
| Unadjusted | fb\_freqEvery\_few\_weeks | 0.000 | 441.373 | -0.028 | 0.978 |
| Unadjusted | fb\_freqOnce\_a\_week | 4.500 | 1.364 | 1.103 | 0.270 |
| Unadjusted | fb\_freqA\_few\_times\_a\_week | 3.857 | 1.109 | 1.217 | 0.224 |
| Unadjusted | fb\_freqOnce\_a\_day | 4.500 | 1.083 | 1.388 | 0.165 |
| Unadjusted | fb\_freqSeveral\_times\_a\_day | 3.375 | 1.059 | 1.148 | 0.251 |
| Adjusted | (Intercept) | 0.075 | 1.077 | -2.407 | 0.016 |
| Adjusted | fb\_freqEvery\_few\_weeks | 0.000 | 687.671 | -0.020 | 0.984 |
| Adjusted | fb\_freqOnce\_a\_week | 3.834 | 1.393 | 0.965 | 0.335 |
| Adjusted | fb\_freqA\_few\_times\_a\_week | 3.673 | 1.130 | 1.152 | 0.250 |
| Adjusted | fb\_freqOnce\_a\_day | 3.477 | 1.104 | 1.129 | 0.259 |
| Adjusted | fb\_freqSeveral\_times\_a\_day | 2.804 | 1.077 | 0.957 | 0.338 |
| Adjusted | countSocialMediaExclFB | 0.869 | 0.101 | -1.386 | 0.166 |
| Adjusted | indSuicideConsideredEverTRUE | 3.191 | 0.213 | 5.451 | 0.000 |
| Adjusted | countSuicideAttempts | 1.297 | 0.124 | 2.107 | 0.035 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 689.028 | 582 | -341.598 | 695.196 | 721.405 | 683.196 | 577 |
| Adjusted | 689.028 | 582 | -315.362 | 648.725 | 688.039 | 630.725 | 574 |

### PHQ-2 vs Active use of Facebook

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.444 | 4 | 580 | 0.777 |
| Adjusted | 0.899 | 4 | 577 | 0.464 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.489 | 0.254 | -2.808 | 0.005 |
| Unadjusted | comm\_facebookOnce\_a\_week | 1.022 | 0.424 | 0.051 | 0.960 |
| Unadjusted | comm\_facebookA\_few\_times\_a\_week | 0.728 | 0.329 | -0.963 | 0.335 |
| Unadjusted | comm\_facebookOnce\_a\_day | 0.806 | 0.338 | -0.638 | 0.524 |
| Unadjusted | comm\_facebookSeveral\_times\_a\_day | 0.742 | 0.291 | -1.026 | 0.305 |
| Adjusted | (Intercept) | 0.299 | 0.286 | -4.228 | 0.000 |
| Adjusted | comm\_facebookOnce\_a\_week | 0.967 | 0.453 | -0.073 | 0.942 |
| Adjusted | comm\_facebookA\_few\_times\_a\_week | 0.584 | 0.351 | -1.535 | 0.125 |
| Adjusted | comm\_facebookOnce\_a\_day | 0.735 | 0.359 | -0.860 | 0.390 |
| Adjusted | comm\_facebookSeveral\_times\_a\_day | 0.635 | 0.311 | -1.460 | 0.144 |
| Adjusted | countSocialMediaExclFB | 0.886 | 0.101 | -1.194 | 0.232 |
| Adjusted | indSuicideConsideredEverTRUE | 3.399 | 0.215 | 5.693 | 0.000 |
| Adjusted | countSuicideAttempts | 1.297 | 0.123 | 2.120 | 0.034 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 694.133 | 584 | -346.194 | 702.388 | 724.246 | 692.388 | 580 |
| Adjusted | 694.133 | 584 | -317.610 | 651.221 | 686.194 | 635.221 | 577 |

### PHQ-2 vs Get emotional support from others

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.943 | 4 | 580 | 0.439 |
| Adjusted | 0.538 | 4 | 577 | 0.708 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.344 | 0.158 | -6.765 | 0.000 |
| Unadjusted | sm\_emot\_supportRarely | 1.202 | 0.225 | 0.819 | 0.413 |
| Unadjusted | sm\_emot\_supportSometimes | 1.232 | 0.248 | 0.844 | 0.399 |
| Unadjusted | sm\_emot\_supportUsually | 0.969 | 0.369 | -0.085 | 0.932 |
| Unadjusted | sm\_emot\_supportAlways | 3.877 | 0.780 | 1.737 | 0.082 |
| Adjusted | (Intercept) | 0.208 | 0.193 | -8.142 | 0.000 |
| Adjusted | sm\_emot\_supportRarely | 1.046 | 0.240 | 0.187 | 0.852 |
| Adjusted | sm\_emot\_supportSometimes | 1.090 | 0.269 | 0.321 | 0.749 |
| Adjusted | sm\_emot\_supportUsually | 0.847 | 0.395 | -0.420 | 0.674 |
| Adjusted | sm\_emot\_supportAlways | 3.045 | 0.839 | 1.327 | 0.185 |
| Adjusted | countSocialMediaExclFB | 0.876 | 0.103 | -1.276 | 0.202 |
| Adjusted | indSuicideConsideredEverTRUE | 3.196 | 0.213 | 5.449 | 0.000 |
| Adjusted | countSuicideAttempts | 1.316 | 0.124 | 2.209 | 0.027 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 694.133 | 584 | -345.178 | 700.355 | 722.213 | 690.355 | 580 |
| Adjusted | 694.133 | 584 | -318.309 | 652.618 | 687.591 | 636.618 | 577 |

### PHQ-2 vs Get information about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.769 | 4 | 579 | 0.134 |
| Adjusted | 1.665 | 4 | 576 | 0.156 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.374 | 0.185 | -5.309 | 0.000 |
| Unadjusted | sm\_med\_infoRarely | 0.789 | 0.257 | -0.923 | 0.356 |
| Unadjusted | sm\_med\_infoSometimes | 1.224 | 0.248 | 0.817 | 0.414 |
| Unadjusted | sm\_med\_infoUsually | 1.605 | 0.318 | 1.489 | 0.137 |
| Unadjusted | sm\_med\_infoAlways | 0.629 | 0.586 | -0.790 | 0.429 |
| Adjusted | (Intercept) | 0.209 | 0.223 | -7.026 | 0.000 |
| Adjusted | sm\_med\_infoRarely | 0.783 | 0.270 | -0.905 | 0.365 |
| Adjusted | sm\_med\_infoSometimes | 1.320 | 0.266 | 1.042 | 0.297 |
| Adjusted | sm\_med\_infoUsually | 1.530 | 0.343 | 1.242 | 0.214 |
| Adjusted | sm\_med\_infoAlways | 0.650 | 0.636 | -0.678 | 0.498 |
| Adjusted | countSocialMediaExclFB | 0.848 | 0.104 | -1.576 | 0.115 |
| Adjusted | indSuicideConsideredEverTRUE | 3.187 | 0.214 | 5.425 | 0.000 |
| Adjusted | countSuicideAttempts | 1.317 | 0.123 | 2.240 | 0.025 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 691.585 | 583 | -342.218 | 694.436 | 716.285 | 684.436 | 579 |
| Adjusted | 691.585 | 583 | -315.254 | 646.508 | 681.467 | 630.508 | 576 |

### PHQ-2 vs Get advice about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 2.008 | 4 | 580 | 0.092 |
| Adjusted | 2.007 | 4 | 577 | 0.092 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.349 | 0.151 | -6.959 | 0.000 |
| Unadjusted | sm\_med\_adviceRarely | 0.962 | 0.231 | -0.168 | 0.867 |
| Unadjusted | sm\_med\_adviceSometimes | 1.369 | 0.239 | 1.311 | 0.190 |
| Unadjusted | sm\_med\_adviceUsually | 2.292 | 0.368 | 2.254 | 0.024 |
| Unadjusted | sm\_med\_adviceAlways | 0.521 | 0.783 | -0.833 | 0.405 |
| Adjusted | (Intercept) | 0.200 | 0.193 | -8.357 | 0.000 |
| Adjusted | sm\_med\_adviceRarely | 0.897 | 0.245 | -0.444 | 0.657 |
| Adjusted | sm\_med\_adviceSometimes | 1.367 | 0.255 | 1.225 | 0.221 |
| Adjusted | sm\_med\_adviceUsually | 2.219 | 0.394 | 2.023 | 0.043 |
| Adjusted | sm\_med\_adviceAlways | 0.412 | 0.844 | -1.052 | 0.293 |
| Adjusted | countSocialMediaExclFB | 0.854 | 0.103 | -1.531 | 0.126 |
| Adjusted | indSuicideConsideredEverTRUE | 3.239 | 0.214 | 5.497 | 0.000 |
| Adjusted | countSuicideAttempts | 1.326 | 0.123 | 2.301 | 0.021 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 694.133 | 584 | -343.059 | 696.119 | 717.977 | 686.119 | 580 |
| Adjusted | 694.133 | 584 | -315.279 | 646.557 | 681.530 | 630.557 | 577 |

### PHQ-2 vs Ask questions about health or medical issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 2.674 | 4 | 580 | 0.031 |
| Adjusted | 2.069 | 4 | 577 | 0.083 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.322 | 0.142 | -8.008 | 0.000 |
| Unadjusted | sm\_med\_questionsRarely | 1.118 | 0.224 | 0.498 | 0.618 |
| Unadjusted | sm\_med\_questionsSometimes | 1.576 | 0.254 | 1.794 | 0.073 |
| Unadjusted | sm\_med\_questionsUsually | 3.106 | 0.381 | 2.976 | 0.003 |
| Unadjusted | sm\_med\_questionsAlways | 1.165 | 0.692 | 0.221 | 0.825 |
| Adjusted | (Intercept) | 0.183 | 0.187 | -9.074 | 0.000 |
| Adjusted | sm\_med\_questionsRarely | 1.169 | 0.239 | 0.655 | 0.513 |
| Adjusted | sm\_med\_questionsSometimes | 1.590 | 0.268 | 1.729 | 0.084 |
| Adjusted | sm\_med\_questionsUsually | 2.806 | 0.410 | 2.514 | 0.012 |
| Adjusted | sm\_med\_questionsAlways | 0.833 | 0.740 | -0.248 | 0.805 |
| Adjusted | countSocialMediaExclFB | 0.843 | 0.103 | -1.647 | 0.100 |
| Adjusted | indSuicideConsideredEverTRUE | 3.205 | 0.213 | 5.460 | 0.000 |
| Adjusted | countSuicideAttempts | 1.301 | 0.123 | 2.135 | 0.033 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 694.133 | 584 | -341.829 | 693.659 | 715.517 | 683.659 | 580 |
| Adjusted | 694.133 | 584 | -315.283 | 646.566 | 681.539 | 630.566 | 577 |

### PHQ-2 vs Share symptoms such as mood swings, depression, anxiety, or sleep problems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 5.873 | 4 | 579 | 0.000 |
| Adjusted | 2.989 | 4 | 576 | 0.018 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.289 | 0.136 | -9.140 | 0.000 |
| Unadjusted | sm\_share\_symptRarely | 1.277 | 0.228 | 1.074 | 0.283 |
| Unadjusted | sm\_share\_symptSometimes | 2.305 | 0.266 | 3.145 | 0.002 |
| Unadjusted | sm\_share\_symptUsually | 5.186 | 0.397 | 4.150 | 0.000 |
| Unadjusted | sm\_share\_symptAlways | 1.482 | 0.703 | 0.559 | 0.576 |
| Adjusted | (Intercept) | 0.193 | 0.173 | -9.490 | 0.000 |
| Adjusted | sm\_share\_symptRarely | 1.032 | 0.241 | 0.132 | 0.895 |
| Adjusted | sm\_share\_symptSometimes | 1.770 | 0.286 | 1.997 | 0.046 |
| Adjusted | sm\_share\_symptUsually | 3.415 | 0.417 | 2.949 | 0.003 |
| Adjusted | sm\_share\_symptAlways | 1.060 | 0.763 | 0.076 | 0.939 |
| Adjusted | countSocialMediaExclFB | 0.864 | 0.104 | -1.402 | 0.161 |
| Adjusted | indSuicideConsideredEverTRUE | 2.968 | 0.218 | 4.991 | 0.000 |
| Adjusted | countSuicideAttempts | 1.271 | 0.126 | 1.907 | 0.057 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 693.474 | 583 | -334.855 | 679.710 | 701.559 | 669.710 | 579 |
| Adjusted | 693.474 | 583 | -313.196 | 642.392 | 677.351 | 626.392 | 576 |

### PHQ-2 vs Share information related to your health

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 3.838 | 4 | 579 | 0.004 |
| Adjusted | 2.287 | 4 | 576 | 0.059 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.313 | 0.140 | -8.295 | 0.000 |
| Unadjusted | sm\_share\_healthRarely | 1.359 | 0.208 | 1.474 | 0.141 |
| Unadjusted | sm\_share\_healthSometimes | 1.405 | 0.292 | 1.167 | 0.243 |
| Unadjusted | sm\_share\_healthUsually | 5.590 | 0.465 | 3.703 | 0.000 |
| Unadjusted | sm\_share\_healthAlways | 0.456 | 1.078 | -0.728 | 0.467 |
| Adjusted | (Intercept) | 0.206 | 0.178 | -8.885 | 0.000 |
| Adjusted | sm\_share\_healthRarely | 1.083 | 0.221 | 0.361 | 0.718 |
| Adjusted | sm\_share\_healthSometimes | 0.997 | 0.316 | -0.010 | 0.992 |
| Adjusted | sm\_share\_healthUsually | 3.756 | 0.494 | 2.680 | 0.007 |
| Adjusted | sm\_share\_healthAlways | 0.238 | 1.172 | -1.225 | 0.221 |
| Adjusted | countSocialMediaExclFB | 0.873 | 0.103 | -1.327 | 0.185 |
| Adjusted | indSuicideConsideredEverTRUE | 3.042 | 0.216 | 5.150 | 0.000 |
| Adjusted | countSuicideAttempts | 1.342 | 0.127 | 2.310 | 0.021 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 693.474 | 583 | -338.623 | 687.247 | 709.096 | 677.247 | 579 |
| Adjusted | 693.474 | 583 | -314.162 | 644.324 | 679.284 | 628.324 | 576 |

### PHQ-2 vs Share thoughts about suicide or hurting yourself in some way

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 7.700 | 4 | 578 | 0.000 |
| Adjusted | 5.046 | 4 | 575 | 0.001 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.313 | 0.105 | -11.053 | 0.000 |
| Unadjusted | sm\_share\_suicideRarely | 3.193 | 0.287 | 4.043 | 0.000 |
| Unadjusted | sm\_share\_suicideSometimes | 4.790 | 0.537 | 2.915 | 0.004 |
| Unadjusted | sm\_share\_suicideUsually | 11.176 | 0.809 | 2.985 | 0.003 |
| Unadjusted | sm\_share\_suicideAlways | 1.064 | 1.159 | 0.054 | 0.957 |
| Adjusted | (Intercept) | 0.195 | 0.162 | -10.121 | 0.000 |
| Adjusted | sm\_share\_suicideRarely | 2.490 | 0.304 | 3.002 | 0.003 |
| Adjusted | sm\_share\_suicideSometimes | 3.191 | 0.567 | 2.047 | 0.041 |
| Adjusted | sm\_share\_suicideUsually | 10.560 | 0.829 | 2.844 | 0.004 |
| Adjusted | sm\_share\_suicideAlways | 0.413 | 1.261 | -0.701 | 0.483 |
| Adjusted | countSocialMediaExclFB | 0.853 | 0.105 | -1.519 | 0.129 |
| Adjusted | indSuicideConsideredEverTRUE | 2.890 | 0.217 | 4.881 | 0.000 |
| Adjusted | countSuicideAttempts | 1.319 | 0.128 | 2.166 | 0.030 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 692.814 | 582 | -330.038 | 670.076 | 691.917 | 660.076 | 578 |
| Adjusted | 692.814 | 582 | -308.051 | 632.102 | 667.047 | 616.102 | 575 |

### AUDIT-C vs Frequency of Facebook use

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.332 | 5 | 575 | 0.249 |
| Adjusted | 1.300 | 5 | 572 | 0.262 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.111 | 1.054 | -2.085 | 0.037 |
| Unadjusted | fb\_freqEvery\_few\_weeks | 3.000 | 1.563 | 0.703 | 0.482 |
| Unadjusted | fb\_freqOnce\_a\_week | 1.800 | 1.520 | 0.387 | 0.699 |
| Unadjusted | fb\_freqA\_few\_times\_a\_week | 4.667 | 1.104 | 1.395 | 0.163 |
| Unadjusted | fb\_freqOnce\_a\_day | 7.615 | 1.080 | 1.879 | 0.060 |
| Unadjusted | fb\_freqSeveral\_times\_a\_day | 6.812 | 1.058 | 1.813 | 0.070 |
| Adjusted | (Intercept) | 0.097 | 1.058 | -2.206 | 0.027 |
| Adjusted | fb\_freqEvery\_few\_weeks | 3.252 | 1.566 | 0.753 | 0.452 |
| Adjusted | fb\_freqOnce\_a\_week | 1.681 | 1.524 | 0.341 | 0.733 |
| Adjusted | fb\_freqA\_few\_times\_a\_week | 4.673 | 1.106 | 1.394 | 0.163 |
| Adjusted | fb\_freqOnce\_a\_day | 7.571 | 1.083 | 1.870 | 0.062 |
| Adjusted | fb\_freqSeveral\_times\_a\_day | 6.710 | 1.060 | 1.795 | 0.073 |
| Adjusted | countSocialMediaExclFB | 1.056 | 0.087 | 0.623 | 0.533 |
| Adjusted | indSuicideConsideredEverTRUE | 1.393 | 0.188 | 1.764 | 0.078 |
| Adjusted | countSuicideAttempts | 0.893 | 0.122 | -0.931 | 0.352 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 789.833 | 580 | -390.408 | 792.816 | 819.004 | 780.816 | 575 |
| Adjusted | 789.833 | 580 | -388.542 | 795.084 | 834.366 | 777.084 | 572 |

### AUDIT-C vs Active use of Facebook

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.095 | 4 | 578 | 0.358 |
| Adjusted | 1.082 | 4 | 575 | 0.365 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.892 | 0.239 | -0.478 | 0.633 |
| Unadjusted | comm\_facebookOnce\_a\_week | 0.561 | 0.416 | -1.393 | 0.164 |
| Unadjusted | comm\_facebookA\_few\_times\_a\_week | 0.785 | 0.303 | -0.799 | 0.425 |
| Unadjusted | comm\_facebookOnce\_a\_day | 0.605 | 0.320 | -1.568 | 0.117 |
| Unadjusted | comm\_facebookSeveral\_times\_a\_day | 0.888 | 0.270 | -0.441 | 0.659 |
| Adjusted | (Intercept) | 0.798 | 0.250 | -0.902 | 0.367 |
| Adjusted | comm\_facebookOnce\_a\_week | 0.562 | 0.417 | -1.383 | 0.167 |
| Adjusted | comm\_facebookA\_few\_times\_a\_week | 0.742 | 0.306 | -0.974 | 0.330 |
| Adjusted | comm\_facebookOnce\_a\_day | 0.583 | 0.322 | -1.674 | 0.094 |
| Adjusted | comm\_facebookSeveral\_times\_a\_day | 0.848 | 0.273 | -0.605 | 0.545 |
| Adjusted | countSocialMediaExclFB | 1.049 | 0.087 | 0.552 | 0.581 |
| Adjusted | indSuicideConsideredEverTRUE | 1.396 | 0.188 | 1.775 | 0.076 |
| Adjusted | countSuicideAttempts | 0.899 | 0.121 | -0.876 | 0.381 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 791.995 | 582 | -393.769 | 797.538 | 819.379 | 787.538 | 578 |
| Adjusted | 791.995 | 582 | -391.937 | 799.874 | 834.819 | 783.874 | 575 |

### AUDIT-C vs Get emotional support from others

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.811 | 4 | 578 | 0.518 |
| Adjusted | 0.664 | 4 | 575 | 0.617 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.648 | 0.141 | -3.074 | 0.002 |
| Unadjusted | sm\_emot\_supportRarely | 1.273 | 0.203 | 1.186 | 0.236 |
| Unadjusted | sm\_emot\_supportSometimes | 1.131 | 0.227 | 0.543 | 0.587 |
| Unadjusted | sm\_emot\_supportUsually | 0.796 | 0.339 | -0.674 | 0.500 |
| Unadjusted | sm\_emot\_supportAlways | 2.056 | 0.777 | 0.928 | 0.353 |
| Adjusted | (Intercept) | 0.580 | 0.157 | -3.472 | 0.001 |
| Adjusted | sm\_emot\_supportRarely | 1.211 | 0.207 | 0.923 | 0.356 |
| Adjusted | sm\_emot\_supportSometimes | 1.053 | 0.235 | 0.220 | 0.826 |
| Adjusted | sm\_emot\_supportUsually | 0.784 | 0.343 | -0.711 | 0.477 |
| Adjusted | sm\_emot\_supportAlways | 2.040 | 0.782 | 0.911 | 0.362 |
| Adjusted | countSocialMediaExclFB | 1.063 | 0.089 | 0.683 | 0.494 |
| Adjusted | indSuicideConsideredEverTRUE | 1.346 | 0.188 | 1.584 | 0.113 |
| Adjusted | countSuicideAttempts | 0.913 | 0.121 | -0.755 | 0.450 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 791.995 | 582 | -394.354 | 798.708 | 820.549 | 788.708 | 578 |
| Adjusted | 791.995 | 582 | -392.787 | 801.573 | 836.519 | 785.573 | 575 |

### AUDIT-C vs Get information about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.962 | 4 | 577 | 0.428 |
| Adjusted | 1.132 | 4 | 574 | 0.340 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.873 | 0.165 | -0.821 | 0.411 |
| Unadjusted | sm\_med\_infoRarely | 0.788 | 0.224 | -1.060 | 0.289 |
| Unadjusted | sm\_med\_infoSometimes | 0.821 | 0.227 | -0.870 | 0.384 |
| Unadjusted | sm\_med\_infoUsually | 0.642 | 0.308 | -1.436 | 0.151 |
| Unadjusted | sm\_med\_infoAlways | 0.458 | 0.510 | -1.530 | 0.126 |
| Adjusted | (Intercept) | 0.758 | 0.182 | -1.528 | 0.126 |
| Adjusted | sm\_med\_infoRarely | 0.765 | 0.227 | -1.184 | 0.237 |
| Adjusted | sm\_med\_infoSometimes | 0.771 | 0.234 | -1.112 | 0.266 |
| Adjusted | sm\_med\_infoUsually | 0.587 | 0.316 | -1.682 | 0.093 |
| Adjusted | sm\_med\_infoAlways | 0.445 | 0.519 | -1.562 | 0.118 |
| Adjusted | countSocialMediaExclFB | 1.110 | 0.090 | 1.170 | 0.242 |
| Adjusted | indSuicideConsideredEverTRUE | 1.353 | 0.188 | 1.613 | 0.107 |
| Adjusted | countSuicideAttempts | 0.924 | 0.122 | -0.650 | 0.516 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 790.243 | 581 | -393.140 | 796.279 | 818.112 | 786.279 | 577 |
| Adjusted | 790.243 | 581 | -390.972 | 797.944 | 832.876 | 781.944 | 574 |

### AUDIT-C vs Get advice about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.384 | 4 | 578 | 0.238 |
| Adjusted | 1.613 | 4 | 575 | 0.169 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.854 | 0.133 | -1.191 | 0.234 |
| Unadjusted | sm\_med\_adviceRarely | 0.692 | 0.205 | -1.792 | 0.073 |
| Unadjusted | sm\_med\_adviceSometimes | 0.796 | 0.222 | -1.027 | 0.304 |
| Unadjusted | sm\_med\_adviceUsually | 1.048 | 0.359 | 0.131 | 0.896 |
| Unadjusted | sm\_med\_adviceAlways | 0.351 | 0.672 | -1.557 | 0.119 |
| Adjusted | (Intercept) | 0.735 | 0.153 | -2.020 | 0.043 |
| Adjusted | sm\_med\_adviceRarely | 0.653 | 0.209 | -2.041 | 0.041 |
| Adjusted | sm\_med\_adviceSometimes | 0.756 | 0.226 | -1.238 | 0.216 |
| Adjusted | sm\_med\_adviceUsually | 0.961 | 0.365 | -0.110 | 0.912 |
| Adjusted | sm\_med\_adviceAlways | 0.330 | 0.679 | -1.635 | 0.102 |
| Adjusted | countSocialMediaExclFB | 1.098 | 0.088 | 1.055 | 0.292 |
| Adjusted | indSuicideConsideredEverTRUE | 1.404 | 0.188 | 1.806 | 0.071 |
| Adjusted | countSuicideAttempts | 0.912 | 0.122 | -0.752 | 0.452 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 791.995 | 582 | -393.098 | 796.197 | 818.037 | 786.197 | 578 |
| Adjusted | 791.995 | 582 | -390.761 | 797.523 | 832.468 | 781.523 | 575 |

### AUDIT-C vs Ask questions about health or medical issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.048 | 4 | 578 | 0.382 |
| Adjusted | 1.142 | 4 | 575 | 0.336 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.783 | 0.122 | -2.000 | 0.046 |
| Unadjusted | sm\_med\_questionsRarely | 0.903 | 0.198 | -0.513 | 0.608 |
| Unadjusted | sm\_med\_questionsSometimes | 0.688 | 0.243 | -1.542 | 0.123 |
| Unadjusted | sm\_med\_questionsUsually | 1.277 | 0.374 | 0.654 | 0.513 |
| Unadjusted | sm\_med\_questionsAlways | 0.479 | 0.688 | -1.070 | 0.285 |
| Adjusted | (Intercept) | 0.676 | 0.146 | -2.683 | 0.007 |
| Adjusted | sm\_med\_questionsRarely | 0.873 | 0.202 | -0.674 | 0.501 |
| Adjusted | sm\_med\_questionsSometimes | 0.662 | 0.245 | -1.684 | 0.092 |
| Adjusted | sm\_med\_questionsUsually | 1.194 | 0.381 | 0.464 | 0.642 |
| Adjusted | sm\_med\_questionsAlways | 0.446 | 0.694 | -1.162 | 0.245 |
| Adjusted | countSocialMediaExclFB | 1.075 | 0.088 | 0.819 | 0.413 |
| Adjusted | indSuicideConsideredEverTRUE | 1.399 | 0.187 | 1.793 | 0.073 |
| Adjusted | countSuicideAttempts | 0.905 | 0.122 | -0.824 | 0.410 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 791.995 | 582 | -393.841 | 797.682 | 819.523 | 787.682 | 578 |
| Adjusted | 791.995 | 582 | -391.772 | 799.544 | 834.490 | 783.544 | 575 |

### AUDIT-C vs Share symptoms such as mood swings, depression, anxiety, or sleep problems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 1.574 | 4 | 577 | 0.180 |
| Adjusted | 1.596 | 4 | 574 | 0.174 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.699 | 0.115 | -3.102 | 0.002 |
| Unadjusted | sm\_share\_symptRarely | 1.321 | 0.199 | 1.399 | 0.162 |
| Unadjusted | sm\_share\_symptSometimes | 0.904 | 0.257 | -0.391 | 0.696 |
| Unadjusted | sm\_share\_symptUsually | 0.455 | 0.449 | -1.754 | 0.079 |
| Unadjusted | sm\_share\_symptAlways | 0.953 | 0.656 | -0.073 | 0.942 |
| Adjusted | (Intercept) | 0.616 | 0.136 | -3.573 | 0.000 |
| Adjusted | sm\_share\_symptRarely | 1.216 | 0.205 | 0.956 | 0.339 |
| Adjusted | sm\_share\_symptSometimes | 0.829 | 0.266 | -0.706 | 0.480 |
| Adjusted | sm\_share\_symptUsually | 0.404 | 0.457 | -1.985 | 0.047 |
| Adjusted | sm\_share\_symptAlways | 0.859 | 0.671 | -0.226 | 0.821 |
| Adjusted | countSocialMediaExclFB | 1.054 | 0.088 | 0.598 | 0.550 |
| Adjusted | indSuicideConsideredEverTRUE | 1.415 | 0.192 | 1.810 | 0.070 |
| Adjusted | countSuicideAttempts | 0.935 | 0.123 | -0.548 | 0.584 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 790.916 | 581 | -392.086 | 794.173 | 816.005 | 784.173 | 577 |
| Adjusted | 790.916 | 581 | -390.184 | 796.369 | 831.300 | 780.369 | 574 |

### AUDIT-C vs Share information related to your health

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.948 | 4 | 577 | 0.435 |
| Adjusted | 1.068 | 4 | 574 | 0.371 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.735 | 0.121 | -2.555 | 0.011 |
| Unadjusted | sm\_share\_healthRarely | 1.048 | 0.187 | 0.251 | 0.801 |
| Unadjusted | sm\_share\_healthSometimes | 0.769 | 0.273 | -0.958 | 0.338 |
| Unadjusted | sm\_share\_healthUsually | 1.238 | 0.453 | 0.470 | 0.638 |
| Unadjusted | sm\_share\_healthAlways | 0.194 | 1.076 | -1.522 | 0.128 |
| Adjusted | (Intercept) | 0.637 | 0.142 | -3.187 | 0.001 |
| Adjusted | sm\_share\_healthRarely | 0.989 | 0.190 | -0.056 | 0.955 |
| Adjusted | sm\_share\_healthSometimes | 0.687 | 0.284 | -1.323 | 0.186 |
| Adjusted | sm\_share\_healthUsually | 1.096 | 0.462 | 0.198 | 0.843 |
| Adjusted | sm\_share\_healthAlways | 0.184 | 1.086 | -1.558 | 0.119 |
| Adjusted | countSocialMediaExclFB | 1.087 | 0.088 | 0.951 | 0.342 |
| Adjusted | indSuicideConsideredEverTRUE | 1.382 | 0.190 | 1.705 | 0.088 |
| Adjusted | countSuicideAttempts | 0.943 | 0.123 | -0.476 | 0.634 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 790.916 | 581 | -393.044 | 796.089 | 817.921 | 786.089 | 577 |
| Adjusted | 790.916 | 581 | -391.015 | 798.030 | 832.961 | 782.030 | 574 |

### AUDIT-C vs Share thoughts about suicide or hurting yourself in some way

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.717 | 4 | 576 | 0.580 |
| Adjusted | 0.541 | 4 | 573 | 0.706 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.688 | 0.091 | -4.099 | 0.000 |
| Unadjusted | sm\_share\_suicideRarely | 1.561 | 0.283 | 1.576 | 0.115 |
| Unadjusted | sm\_share\_suicideSometimes | 1.453 | 0.542 | 0.689 | 0.491 |
| Unadjusted | sm\_share\_suicideUsually | 1.163 | 0.677 | 0.222 | 0.824 |
| Unadjusted | sm\_share\_suicideAlways | 0.000 | 441.372 | -0.032 | 0.974 |
| Adjusted | (Intercept) | 0.605 | 0.125 | -4.005 | 0.000 |
| Adjusted | sm\_share\_suicideRarely | 1.498 | 0.287 | 1.406 | 0.160 |
| Adjusted | sm\_share\_suicideSometimes | 1.351 | 0.552 | 0.545 | 0.586 |
| Adjusted | sm\_share\_suicideUsually | 1.055 | 0.682 | 0.079 | 0.937 |
| Adjusted | sm\_share\_suicideAlways | 0.000 | 438.789 | -0.032 | 0.974 |
| Adjusted | countSocialMediaExclFB | 1.059 | 0.087 | 0.657 | 0.511 |
| Adjusted | indSuicideConsideredEverTRUE | 1.322 | 0.189 | 1.476 | 0.140 |
| Adjusted | countSuicideAttempts | 0.914 | 0.126 | -0.712 | 0.476 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 789.833 | 580 | -391.308 | 792.615 | 814.439 | 782.615 | 576 |
| Adjusted | 789.833 | 580 | -389.911 | 795.822 | 830.740 | 779.822 | 573 |

### DSI-SS vs Frequency of Facebook use

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.523 | 5 | 577 | 0.759 |
| Adjusted | 0.659 | 5 | 574 | 0.655 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.250 | 0.791 | -1.754 | 0.080 |
| Unadjusted | fb\_freqEvery\_few\_weeks | 4.000 | 1.275 | 1.087 | 0.277 |
| Unadjusted | fb\_freqOnce\_a\_week | 0.800 | 1.351 | -0.165 | 0.869 |
| Unadjusted | fb\_freqA\_few\_times\_a\_week | 0.824 | 0.893 | -0.217 | 0.828 |
| Unadjusted | fb\_freqOnce\_a\_day | 1.333 | 0.836 | 0.344 | 0.731 |
| Unadjusted | fb\_freqSeveral\_times\_a\_day | 1.172 | 0.799 | 0.199 | 0.842 |
| Adjusted | (Intercept) | 0.124 | 0.854 | -2.443 | 0.015 |
| Adjusted | fb\_freqEvery\_few\_weeks | 5.146 | 1.376 | 1.191 | 0.234 |
| Adjusted | fb\_freqOnce\_a\_week | 0.536 | 1.420 | -0.439 | 0.661 |
| Adjusted | fb\_freqA\_few\_times\_a\_week | 0.660 | 0.953 | -0.436 | 0.663 |
| Adjusted | fb\_freqOnce\_a\_day | 0.828 | 0.897 | -0.210 | 0.833 |
| Adjusted | fb\_freqSeveral\_times\_a\_day | 0.802 | 0.854 | -0.259 | 0.796 |
| Adjusted | countSocialMediaExclFB | 0.969 | 0.106 | -0.293 | 0.769 |
| Adjusted | indSuicideConsideredEverTRUE | 5.757 | 0.248 | 7.063 | 0.000 |
| Adjusted | countSuicideAttempts | 1.330 | 0.123 | 2.310 | 0.021 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 623.703 | 582 | -310.555 | 633.109 | 659.318 | 621.109 | 577 |
| Adjusted | 623.703 | 582 | -267.052 | 552.104 | 591.418 | 534.104 | 574 |

### DSI-SS vs Active use of Facebook

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.644 | 4 | 580 | 0.631 |
| Adjusted | 1.060 | 4 | 577 | 0.376 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.373 | 0.269 | -3.674 | 0.000 |
| Unadjusted | comm\_facebookOnce\_a\_week | 0.805 | 0.465 | -0.465 | 0.642 |
| Unadjusted | comm\_facebookA\_few\_times\_a\_week | 0.946 | 0.340 | -0.164 | 0.869 |
| Unadjusted | comm\_facebookOnce\_a\_day | 0.688 | 0.368 | -1.017 | 0.309 |
| Unadjusted | comm\_facebookSeveral\_times\_a\_day | 0.691 | 0.310 | -1.195 | 0.232 |
| Adjusted | (Intercept) | 0.159 | 0.325 | -5.653 | 0.000 |
| Adjusted | comm\_facebookOnce\_a\_week | 0.705 | 0.516 | -0.678 | 0.498 |
| Adjusted | comm\_facebookA\_few\_times\_a\_week | 0.701 | 0.377 | -0.943 | 0.346 |
| Adjusted | comm\_facebookOnce\_a\_day | 0.569 | 0.404 | -1.397 | 0.163 |
| Adjusted | comm\_facebookSeveral\_times\_a\_day | 0.513 | 0.346 | -1.930 | 0.054 |
| Adjusted | countSocialMediaExclFB | 0.983 | 0.107 | -0.156 | 0.876 |
| Adjusted | indSuicideConsideredEverTRUE | 5.781 | 0.249 | 7.045 | 0.000 |
| Adjusted | countSuicideAttempts | 1.315 | 0.122 | 2.245 | 0.025 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 624.728 | 584 | -311.091 | 632.182 | 654.040 | 622.182 | 580 |
| Adjusted | 624.728 | 584 | -267.724 | 551.449 | 586.422 | 535.449 | 577 |

### DSI-SS vs Get emotional support from others

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.450 | 4 | 580 | 0.772 |
| Adjusted | 0.669 | 4 | 577 | 0.614 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.269 | 0.168 | -7.807 | 0.000 |
| Unadjusted | sm\_emot\_supportRarely | 1.282 | 0.237 | 1.046 | 0.296 |
| Unadjusted | sm\_emot\_supportSometimes | 0.963 | 0.274 | -0.136 | 0.892 |
| Unadjusted | sm\_emot\_supportUsually | 1.103 | 0.382 | 0.257 | 0.797 |
| Unadjusted | sm\_emot\_supportAlways | 0.619 | 1.093 | -0.440 | 0.660 |
| Adjusted | (Intercept) | 0.110 | 0.232 | -9.525 | 0.000 |
| Adjusted | sm\_emot\_supportRarely | 0.999 | 0.262 | -0.005 | 0.996 |
| Adjusted | sm\_emot\_supportSometimes | 0.697 | 0.308 | -1.172 | 0.241 |
| Adjusted | sm\_emot\_supportUsually | 0.871 | 0.428 | -0.323 | 0.747 |
| Adjusted | sm\_emot\_supportAlways | 0.295 | 1.196 | -1.021 | 0.307 |
| Adjusted | countSocialMediaExclFB | 0.983 | 0.109 | -0.152 | 0.879 |
| Adjusted | indSuicideConsideredEverTRUE | 5.674 | 0.247 | 7.017 | 0.000 |
| Adjusted | countSuicideAttempts | 1.339 | 0.123 | 2.379 | 0.017 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 624.728 | 584 | -311.454 | 632.907 | 654.765 | 622.907 | 580 |
| Adjusted | 624.728 | 584 | -268.357 | 552.715 | 587.688 | 536.715 | 577 |

### DSI-SS vs Get information about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.758 | 4 | 579 | 0.553 |
| Adjusted | 0.963 | 4 | 576 | 0.427 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.287 | 0.197 | -6.322 | 0.000 |
| Unadjusted | sm\_med\_infoRarely | 1.196 | 0.261 | 0.686 | 0.493 |
| Unadjusted | sm\_med\_infoSometimes | 0.929 | 0.272 | -0.269 | 0.788 |
| Unadjusted | sm\_med\_infoUsually | 1.067 | 0.355 | 0.182 | 0.856 |
| Unadjusted | sm\_med\_infoAlways | 0.367 | 0.769 | -1.304 | 0.192 |
| Adjusted | (Intercept) | 0.104 | 0.265 | -8.543 | 0.000 |
| Adjusted | sm\_med\_infoRarely | 1.195 | 0.286 | 0.624 | 0.533 |
| Adjusted | sm\_med\_infoSometimes | 0.875 | 0.302 | -0.442 | 0.659 |
| Adjusted | sm\_med\_infoUsually | 0.814 | 0.394 | -0.521 | 0.602 |
| Adjusted | sm\_med\_infoAlways | 0.295 | 0.847 | -1.442 | 0.149 |
| Adjusted | countSocialMediaExclFB | 0.984 | 0.110 | -0.146 | 0.884 |
| Adjusted | indSuicideConsideredEverTRUE | 5.522 | 0.246 | 6.935 | 0.000 |
| Adjusted | countSuicideAttempts | 1.367 | 0.124 | 2.518 | 0.012 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 624.216 | 583 | -310.298 | 630.597 | 652.446 | 620.597 | 579 |
| Adjusted | 624.216 | 583 | -267.051 | 550.103 | 585.062 | 534.103 | 576 |

### DSI-SS vs Get advice about health or medical topics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.612 | 4 | 580 | 0.654 |
| Adjusted | 0.911 | 4 | 577 | 0.457 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.301 | 0.157 | -7.660 | 0.000 |
| Unadjusted | sm\_med\_adviceRarely | 1.016 | 0.237 | 0.067 | 0.947 |
| Unadjusted | sm\_med\_adviceSometimes | 0.854 | 0.267 | -0.592 | 0.554 |
| Unadjusted | sm\_med\_adviceUsually | 1.277 | 0.404 | 0.606 | 0.544 |
| Unadjusted | sm\_med\_adviceAlways | 0.277 | 1.052 | -1.221 | 0.222 |
| Adjusted | (Intercept) | 0.115 | 0.227 | -9.526 | 0.000 |
| Adjusted | sm\_med\_adviceRarely | 0.872 | 0.261 | -0.523 | 0.601 |
| Adjusted | sm\_med\_adviceSometimes | 0.721 | 0.294 | -1.111 | 0.267 |
| Adjusted | sm\_med\_adviceUsually | 0.993 | 0.445 | -0.016 | 0.987 |
| Adjusted | sm\_med\_adviceAlways | 0.162 | 1.124 | -1.621 | 0.105 |
| Adjusted | countSocialMediaExclFB | 0.986 | 0.108 | -0.128 | 0.898 |
| Adjusted | indSuicideConsideredEverTRUE | 5.584 | 0.247 | 6.976 | 0.000 |
| Adjusted | countSuicideAttempts | 1.355 | 0.123 | 2.465 | 0.014 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 624.728 | 584 | -310.834 | 631.669 | 653.527 | 621.669 | 580 |
| Adjusted | 624.728 | 584 | -267.485 | 550.970 | 585.943 | 534.970 | 577 |

### DSI-SS vs Ask questions about health or medical issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 0.675 | 4 | 580 | 0.609 |
| Adjusted | 0.704 | 4 | 577 | 0.589 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.289 | 0.145 | -8.537 | 0.000 |
| Unadjusted | sm\_med\_questionsRarely | 0.929 | 0.237 | -0.309 | 0.757 |
| Unadjusted | sm\_med\_questionsSometimes | 1.092 | 0.276 | 0.320 | 0.749 |
| Unadjusted | sm\_med\_questionsUsually | 1.572 | 0.408 | 1.109 | 0.268 |
| Unadjusted | sm\_med\_questionsAlways | 0.346 | 1.059 | -1.003 | 0.316 |
| Adjusted | (Intercept) | 0.107 | 0.222 | -10.080 | 0.000 |
| Adjusted | sm\_med\_questionsRarely | 0.878 | 0.263 | -0.495 | 0.621 |
| Adjusted | sm\_med\_questionsSometimes | 0.987 | 0.300 | -0.044 | 0.965 |
| Adjusted | sm\_med\_questionsUsually | 1.079 | 0.456 | 0.167 | 0.867 |
| Adjusted | sm\_med\_questionsAlways | 0.169 | 1.117 | -1.592 | 0.111 |
| Adjusted | countSocialMediaExclFB | 0.972 | 0.109 | -0.259 | 0.796 |
| Adjusted | indSuicideConsideredEverTRUE | 5.594 | 0.246 | 7.004 | 0.000 |
| Adjusted | countSuicideAttempts | 1.348 | 0.124 | 2.419 | 0.016 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 624.728 | 584 | -310.875 | 631.750 | 653.608 | 621.750 | 580 |
| Adjusted | 624.728 | 584 | -267.860 | 551.721 | 586.694 | 535.721 | 577 |

### DSI-SS vs Share symptoms such as mood swings, depression, anxiety, or sleep problems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 4.017 | 4 | 579 | 0.003 |
| Adjusted | 1.201 | 4 | 576 | 0.309 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.204 | 0.151 | -10.553 | 0.000 |
| Unadjusted | sm\_share\_symptRarely | 1.890 | 0.236 | 2.698 | 0.007 |
| Unadjusted | sm\_share\_symptSometimes | 2.102 | 0.287 | 2.591 | 0.010 |
| Unadjusted | sm\_share\_symptUsually | 3.270 | 0.402 | 2.948 | 0.003 |
| Unadjusted | sm\_share\_symptAlways | 0.545 | 1.065 | -0.570 | 0.569 |
| Adjusted | (Intercept) | 0.092 | 0.217 | -10.982 | 0.000 |
| Adjusted | sm\_share\_symptRarely | 1.388 | 0.257 | 1.275 | 0.202 |
| Adjusted | sm\_share\_symptSometimes | 1.320 | 0.319 | 0.872 | 0.383 |
| Adjusted | sm\_share\_symptUsually | 1.721 | 0.436 | 1.244 | 0.214 |
| Adjusted | sm\_share\_symptAlways | 0.238 | 1.140 | -1.259 | 0.208 |
| Adjusted | countSocialMediaExclFB | 0.963 | 0.108 | -0.347 | 0.729 |
| Adjusted | indSuicideConsideredEverTRUE | 5.121 | 0.249 | 6.549 | 0.000 |
| Adjusted | countSuicideAttempts | 1.348 | 0.126 | 2.378 | 0.017 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 624.216 | 583 | -303.939 | 617.879 | 639.728 | 607.879 | 579 |
| Adjusted | 624.216 | 583 | -266.921 | 549.843 | 584.802 | 533.843 | 576 |

### DSI-SS vs Share information related to your health

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 3.175 | 4 | 579 | 0.014 |
| Adjusted | 1.302 | 4 | 576 | 0.268 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.226 | 0.154 | -9.683 | 0.000 |
| Unadjusted | sm\_share\_healthRarely | 1.595 | 0.222 | 2.103 | 0.035 |
| Unadjusted | sm\_share\_healthSometimes | 1.264 | 0.322 | 0.726 | 0.468 |
| Unadjusted | sm\_share\_healthUsually | 4.423 | 0.453 | 3.281 | 0.001 |
| Unadjusted | sm\_share\_healthAlways | 0.000 | 514.561 | -0.027 | 0.978 |
| Adjusted | (Intercept) | 0.099 | 0.221 | -10.461 | 0.000 |
| Adjusted | sm\_share\_healthRarely | 1.149 | 0.243 | 0.570 | 0.568 |
| Adjusted | sm\_share\_healthSometimes | 0.689 | 0.361 | -1.031 | 0.303 |
| Adjusted | sm\_share\_healthUsually | 2.359 | 0.502 | 1.709 | 0.087 |
| Adjusted | sm\_share\_healthAlways | 0.000 | 728.350 | -0.022 | 0.983 |
| Adjusted | countSocialMediaExclFB | 0.984 | 0.108 | -0.148 | 0.882 |
| Adjusted | indSuicideConsideredEverTRUE | 5.319 | 0.249 | 6.703 | 0.000 |
| Adjusted | countSuicideAttempts | 1.416 | 0.130 | 2.673 | 0.008 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 624.216 | 583 | -303.827 | 617.655 | 639.504 | 607.655 | 579 |
| Adjusted | 624.216 | 583 | -263.632 | 543.265 | 578.224 | 527.265 | 576 |

### DSI-SS vs Share thoughts about suicide or hurting yourself in some way

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| model | F | df1 | df2 | pValue |
| Unadjusted | 11.005 | 4 | 578 | 0 |
| Adjusted | 6.523 | 4 | 575 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.217 | 0.117 | -13.062 | 0.000 |
| Unadjusted | sm\_share\_suicideRarely | 5.315 | 0.292 | 5.714 | 0.000 |
| Unadjusted | sm\_share\_suicideSometimes | 5.265 | 0.531 | 3.131 | 0.002 |
| Unadjusted | sm\_share\_suicideUsually | 5.758 | 0.681 | 2.571 | 0.010 |
| Unadjusted | sm\_share\_suicideAlways | 0.000 | 727.699 | -0.019 | 0.985 |
| Adjusted | (Intercept) | 0.087 | 0.209 | -11.638 | 0.000 |
| Adjusted | sm\_share\_suicideRarely | 4.229 | 0.322 | 4.484 | 0.000 |
| Adjusted | sm\_share\_suicideSometimes | 2.966 | 0.576 | 1.888 | 0.059 |
| Adjusted | sm\_share\_suicideUsually | 5.198 | 0.731 | 2.256 | 0.024 |
| Adjusted | sm\_share\_suicideAlways | 0.000 | 641.563 | -0.024 | 0.981 |
| Adjusted | countSocialMediaExclFB | 0.928 | 0.111 | -0.669 | 0.503 |
| Adjusted | indSuicideConsideredEverTRUE | 4.974 | 0.252 | 6.355 | 0.000 |
| Adjusted | countSuicideAttempts | 1.359 | 0.133 | 2.300 | 0.021 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 623.703 | 582 | -289.197 | 588.394 | 610.235 | 578.394 | 578 |
| Adjusted | 623.703 | 582 | -254.092 | 524.184 | 559.129 | 508.184 | 575 |

## F-tests

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| depvar | indepvar | model | F | df1 | df2 | pValue | indSig |
| indPTSD | fb\_freq | Unadjusted | 1.333 | 5 | 576 | 0.248 | . |
| indPTSD | fb\_freq | Adjusted | 1.388 | 5 | 573 | 0.227 | . |
| indPTSD | comm\_facebook | Unadjusted | 1.456 | 4 | 579 | 0.214 | . |
| indPTSD | comm\_facebook | Adjusted | 2.056 | 4 | 576 | 0.085 | . |
| indPTSD | sm\_emot\_support | Unadjusted | 1.156 | 4 | 579 | 0.329 | . |
| indPTSD | sm\_emot\_support | Adjusted | 0.959 | 4 | 576 | 0.429 | . |
| indPTSD | sm\_med\_info | Unadjusted | 1.221 | 4 | 578 | 0.301 | . |
| indPTSD | sm\_med\_info | Adjusted | 1.147 | 4 | 575 | 0.333 | . |
| indPTSD | sm\_med\_advice | Unadjusted | 1.892 | 4 | 579 | 0.110 | . |
| indPTSD | sm\_med\_advice | Adjusted | 1.918 | 4 | 576 | 0.106 | . |
| indPTSD | sm\_med\_questions | Unadjusted | 2.187 | 4 | 579 | 0.069 | . |
| indPTSD | sm\_med\_questions | Adjusted | 1.279 | 4 | 576 | 0.277 | . |
| indPTSD | sm\_share\_sympt | Unadjusted | 5.126 | 4 | 578 | 0.000 | \*\*\* |
| indPTSD | sm\_share\_sympt | Adjusted | 2.812 | 4 | 575 | 0.025 | \* |
| indPTSD | sm\_share\_health | Unadjusted | 3.566 | 4 | 578 | 0.007 | \*\* |
| indPTSD | sm\_share\_health | Adjusted | 2.427 | 4 | 575 | 0.047 | \* |
| indPTSD | sm\_share\_suicide | Unadjusted | 6.156 | 4 | 577 | 0.000 | \*\*\* |
| indPTSD | sm\_share\_suicide | Adjusted | 3.962 | 4 | 574 | 0.004 | \*\* |
| indPHQ | fb\_freq | Unadjusted | 0.540 | 5 | 577 | 0.746 | . |
| indPHQ | fb\_freq | Adjusted | 0.412 | 5 | 574 | 0.840 | . |
| indPHQ | comm\_facebook | Unadjusted | 0.444 | 4 | 580 | 0.777 | . |
| indPHQ | comm\_facebook | Adjusted | 0.899 | 4 | 577 | 0.464 | . |
| indPHQ | sm\_emot\_support | Unadjusted | 0.943 | 4 | 580 | 0.439 | . |
| indPHQ | sm\_emot\_support | Adjusted | 0.538 | 4 | 577 | 0.708 | . |
| indPHQ | sm\_med\_info | Unadjusted | 1.769 | 4 | 579 | 0.134 | . |
| indPHQ | sm\_med\_info | Adjusted | 1.665 | 4 | 576 | 0.156 | . |
| indPHQ | sm\_med\_advice | Unadjusted | 2.008 | 4 | 580 | 0.092 | . |
| indPHQ | sm\_med\_advice | Adjusted | 2.007 | 4 | 577 | 0.092 | . |
| indPHQ | sm\_med\_questions | Unadjusted | 2.674 | 4 | 580 | 0.031 | \* |
| indPHQ | sm\_med\_questions | Adjusted | 2.069 | 4 | 577 | 0.083 | . |
| indPHQ | sm\_share\_sympt | Unadjusted | 5.873 | 4 | 579 | 0.000 | \*\*\* |
| indPHQ | sm\_share\_sympt | Adjusted | 2.989 | 4 | 576 | 0.018 | \* |
| indPHQ | sm\_share\_health | Unadjusted | 3.838 | 4 | 579 | 0.004 | \*\* |
| indPHQ | sm\_share\_health | Adjusted | 2.287 | 4 | 576 | 0.059 | . |
| indPHQ | sm\_share\_suicide | Unadjusted | 7.700 | 4 | 578 | 0.000 | \*\*\* |
| indPHQ | sm\_share\_suicide | Adjusted | 5.046 | 4 | 575 | 0.001 | \*\*\* |
| indAuditC | fb\_freq | Unadjusted | 1.332 | 5 | 575 | 0.249 | . |
| indAuditC | fb\_freq | Adjusted | 1.300 | 5 | 572 | 0.262 | . |
| indAuditC | comm\_facebook | Unadjusted | 1.095 | 4 | 578 | 0.358 | . |
| indAuditC | comm\_facebook | Adjusted | 1.082 | 4 | 575 | 0.365 | . |
| indAuditC | sm\_emot\_support | Unadjusted | 0.811 | 4 | 578 | 0.518 | . |
| indAuditC | sm\_emot\_support | Adjusted | 0.664 | 4 | 575 | 0.617 | . |
| indAuditC | sm\_med\_info | Unadjusted | 0.962 | 4 | 577 | 0.428 | . |
| indAuditC | sm\_med\_info | Adjusted | 1.132 | 4 | 574 | 0.340 | . |
| indAuditC | sm\_med\_advice | Unadjusted | 1.384 | 4 | 578 | 0.238 | . |
| indAuditC | sm\_med\_advice | Adjusted | 1.613 | 4 | 575 | 0.169 | . |
| indAuditC | sm\_med\_questions | Unadjusted | 1.048 | 4 | 578 | 0.382 | . |
| indAuditC | sm\_med\_questions | Adjusted | 1.142 | 4 | 575 | 0.336 | . |
| indAuditC | sm\_share\_sympt | Unadjusted | 1.574 | 4 | 577 | 0.180 | . |
| indAuditC | sm\_share\_sympt | Adjusted | 1.596 | 4 | 574 | 0.174 | . |
| indAuditC | sm\_share\_health | Unadjusted | 0.948 | 4 | 577 | 0.435 | . |
| indAuditC | sm\_share\_health | Adjusted | 1.068 | 4 | 574 | 0.371 | . |
| indAuditC | sm\_share\_suicide | Unadjusted | 0.717 | 4 | 576 | 0.580 | . |
| indAuditC | sm\_share\_suicide | Adjusted | 0.541 | 4 | 573 | 0.706 | . |
| indDSISS | fb\_freq | Unadjusted | 0.523 | 5 | 577 | 0.759 | . |
| indDSISS | fb\_freq | Adjusted | 0.659 | 5 | 574 | 0.655 | . |
| indDSISS | comm\_facebook | Unadjusted | 0.644 | 4 | 580 | 0.631 | . |
| indDSISS | comm\_facebook | Adjusted | 1.060 | 4 | 577 | 0.376 | . |
| indDSISS | sm\_emot\_support | Unadjusted | 0.450 | 4 | 580 | 0.772 | . |
| indDSISS | sm\_emot\_support | Adjusted | 0.669 | 4 | 577 | 0.614 | . |
| indDSISS | sm\_med\_info | Unadjusted | 0.758 | 4 | 579 | 0.553 | . |
| indDSISS | sm\_med\_info | Adjusted | 0.963 | 4 | 576 | 0.427 | . |
| indDSISS | sm\_med\_advice | Unadjusted | 0.612 | 4 | 580 | 0.654 | . |
| indDSISS | sm\_med\_advice | Adjusted | 0.911 | 4 | 577 | 0.457 | . |
| indDSISS | sm\_med\_questions | Unadjusted | 0.675 | 4 | 580 | 0.609 | . |
| indDSISS | sm\_med\_questions | Adjusted | 0.704 | 4 | 577 | 0.589 | . |
| indDSISS | sm\_share\_sympt | Unadjusted | 4.017 | 4 | 579 | 0.003 | \*\* |
| indDSISS | sm\_share\_sympt | Adjusted | 1.201 | 4 | 576 | 0.309 | . |
| indDSISS | sm\_share\_health | Unadjusted | 3.175 | 4 | 579 | 0.014 | \* |
| indDSISS | sm\_share\_health | Adjusted | 1.302 | 4 | 576 | 0.268 | . |
| indDSISS | sm\_share\_suicide | Unadjusted | 11.005 | 4 | 578 | 0.000 | \*\*\* |
| indDSISS | sm\_share\_suicide | Adjusted | 6.523 | 4 | 575 | 0.000 | \*\*\* |

## Additional questions

An issue that additional data analysis could clarify is whether veterans who are actively experiencing psychiatric problems are using social media for health-related purposes. If so, this would suggest potential for an intervention that aims to increase the likelihood of veterans using social media to initiate help-seeking or take a screener for psychiatric problems after developing psychiatric symptoms. It would be interest to see if:

* Of those who screen positive for PTSD, alcohol misuse, depression, and suicidal ideation, how often do they use a social media platform for health- related concerns?
* Anything else???

# Research Question 3

**Is perceived social support received from Facebook (fmssSubscore) associated with health service utilization?**

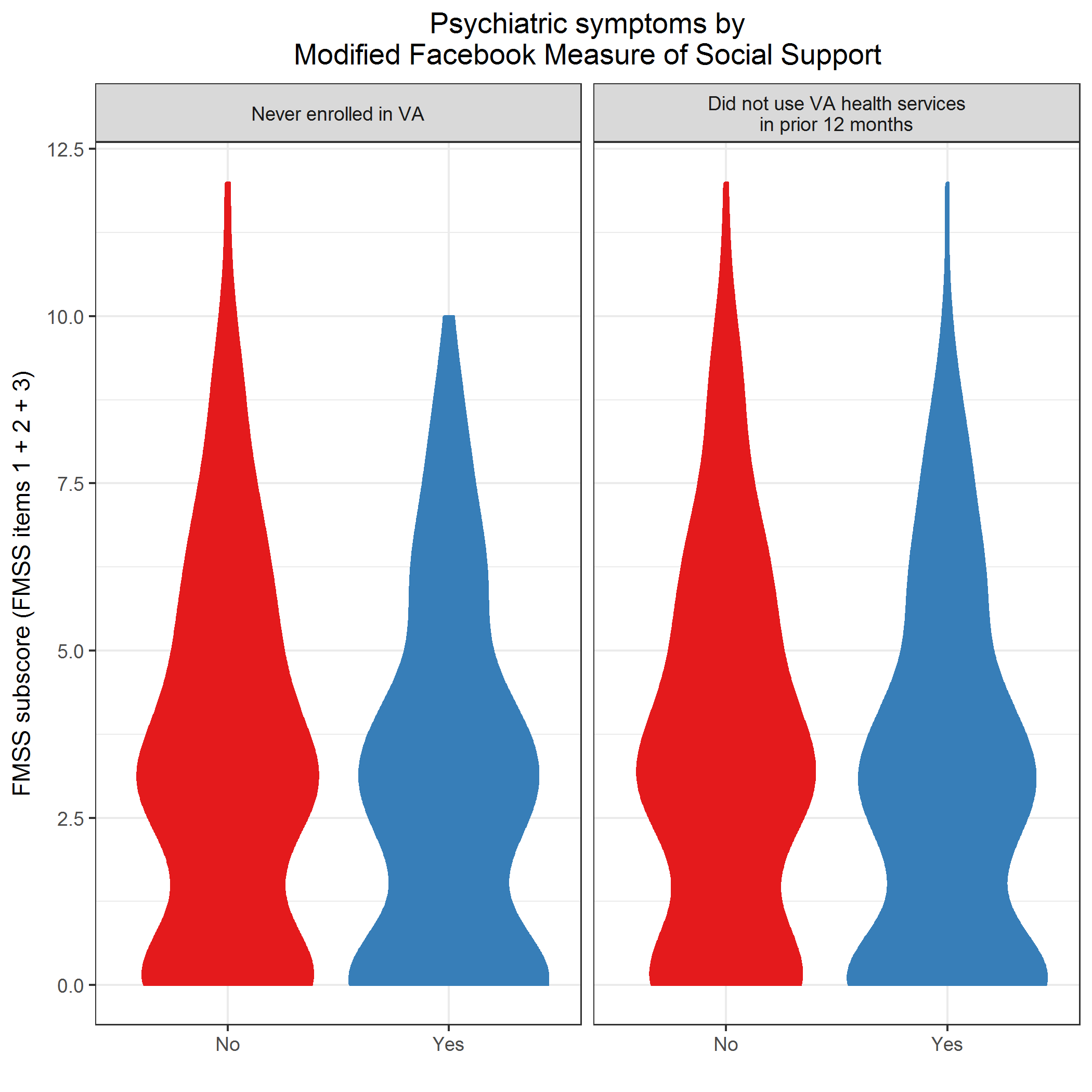
* Among participants with positive screens for psychiatric disorders or suicidal ideation?
* Among all participants?

Use interaction terms to examine effect modification by positive screens for psychiatric disorders or suicidal ideation. **Look at the unadjusted and adjusted odds ratio for the fmssSubscore term.**

## Unadjusted comparisons

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indVANeverEnrolled | mean | sd | min | max | n | freq |
| fmssSubscore | FALSE | 3.4 | 2.7 | 0 | 12 | 392 | 67.2% |
| fmssSubscore | TRUE | 2.9 | 2.6 | 0 | 10 | 191 | 32.8% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | indVANotUse12mo | mean | sd | min | max | n | freq |
| fmssSubscore | FALSE | 3.5 | 2.8 | 0 | 12 | 262 | 45.0% |
| fmssSubscore | TRUE | 3.0 | 2.6 | 0 | 12 | 320 | 55.0% |



plot of chunk plot2GroupsRQ3

## Adjusted comparisons

Filter subjects with missing covariates.

### Never enrolled in VA

**PC-PTSD**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.342 | 0.224 | -4.782 | 0.000 |
| Unadjusted | fmssSubscore | 0.923 | 0.058 | -1.395 | 0.163 |
| Unadjusted | indNotPTSDTRUE | 2.650 | 0.285 | 3.415 | 0.001 |
| Unadjusted | fmssSubscore:indNotPTSDTRUE | 1.016 | 0.072 | 0.220 | 0.826 |
| Adjusted | (Intercept) | 0.403 | 0.252 | -3.606 | 0.000 |
| Adjusted | fmssSubscore | 0.944 | 0.058 | -0.995 | 0.320 |
| Adjusted | countSocialMediaExclFB | 0.852 | 0.103 | -1.555 | 0.120 |
| Adjusted | indSuicideConsideredEverTRUE | 1.169 | 0.206 | 0.757 | 0.449 |
| Adjusted | countSuicideAttempts | 0.510 | 0.229 | -2.942 | 0.003 |
| Adjusted | indNotPTSDTRUE | 2.442 | 0.294 | 3.036 | 0.002 |
| Adjusted | fmssSubscore:indNotPTSDTRUE | 1.001 | 0.073 | 0.018 | 0.986 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 733.649 | 579 | -349.346 | 706.691 | 724.143 | 698.691 | 576 |
| Adjusted | 733.649 | 579 | -341.705 | 697.411 | 727.952 | 683.411 | 573 |

**PHQ-2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.458 | 0.264 | -2.958 | 0.003 |
| Unadjusted | fmssSubscore | 0.862 | 0.074 | -2.016 | 0.044 |
| Unadjusted | indNotPHQTRUE | 1.476 | 0.307 | 1.267 | 0.205 |
| Unadjusted | fmssSubscore:indNotPHQTRUE | 1.105 | 0.083 | 1.199 | 0.231 |
| Adjusted | (Intercept) | 0.582 | 0.291 | -1.860 | 0.063 |
| Adjusted | fmssSubscore | 0.876 | 0.072 | -1.833 | 0.067 |
| Adjusted | countSocialMediaExclFB | 0.836 | 0.102 | -1.755 | 0.079 |
| Adjusted | indSuicideConsideredEverTRUE | 1.117 | 0.204 | 0.542 | 0.588 |
| Adjusted | countSuicideAttempts | 0.493 | 0.221 | -3.200 | 0.001 |
| Adjusted | indNotPHQTRUE | 1.296 | 0.315 | 0.822 | 0.411 |
| Adjusted | fmssSubscore:indNotPHQTRUE | 1.108 | 0.082 | 1.249 | 0.212 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 735.877 | 580 | -359.843 | 727.685 | 745.144 | 719.685 | 577 |
| Adjusted | 735.877 | 580 | -350.017 | 714.035 | 744.588 | 700.035 | 574 |

**AUDIT-C**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.800 | 0.209 | -1.067 | 0.286 |
| Unadjusted | fmssSubscore | 0.890 | 0.055 | -2.107 | 0.035 |
| Unadjusted | indNotAuditCTRUE | 0.608 | 0.275 | -1.811 | 0.070 |
| Unadjusted | fmssSubscore:indNotAuditCTRUE | 1.083 | 0.070 | 1.145 | 0.252 |
| Adjusted | (Intercept) | 1.025 | 0.232 | 0.104 | 0.917 |
| Adjusted | fmssSubscore | 0.903 | 0.057 | -1.809 | 0.071 |
| Adjusted | countSocialMediaExclFB | 0.841 | 0.102 | -1.691 | 0.091 |
| Adjusted | indSuicideConsideredEverTRUE | 0.924 | 0.200 | -0.393 | 0.694 |
| Adjusted | countSuicideAttempts | 0.490 | 0.220 | -3.243 | 0.001 |
| Adjusted | indNotAuditCTRUE | 0.582 | 0.280 | -1.932 | 0.053 |
| Adjusted | fmssSubscore:indNotAuditCTRUE | 1.088 | 0.071 | 1.190 | 0.234 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 731.413 | 578 | -361.896 | 731.793 | 749.238 | 723.793 | 575 |
| Adjusted | 731.413 | 578 | -349.757 | 713.514 | 744.043 | 699.514 | 572 |

**DSI-SS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.359 | 0.297 | -3.441 | 0.001 |
| Unadjusted | fmssSubscore | 1.070 | 0.075 | 0.903 | 0.366 |
| Unadjusted | indNotDSISSTRUE | 1.935 | 0.334 | 1.977 | 0.048 |
| Unadjusted | fmssSubscore:indNotDSISSTRUE | 0.844 | 0.084 | -2.019 | 0.044 |
| Adjusted | (Intercept) | 0.552 | 0.341 | -1.742 | 0.082 |
| Adjusted | fmssSubscore | 1.091 | 0.076 | 1.142 | 0.254 |
| Adjusted | countSocialMediaExclFB | 0.852 | 0.101 | -1.593 | 0.111 |
| Adjusted | indSuicideConsideredEverTRUE | 0.965 | 0.209 | -0.170 | 0.865 |
| Adjusted | countSuicideAttempts | 0.469 | 0.220 | -3.433 | 0.001 |
| Adjusted | indNotDSISSTRUE | 1.445 | 0.354 | 1.040 | 0.298 |
| Adjusted | fmssSubscore:indNotDSISSTRUE | 0.843 | 0.086 | -1.995 | 0.046 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 735.877 | 580 | -363.574 | 735.148 | 752.607 | 727.148 | 577 |
| Adjusted | 735.877 | 580 | -351.788 | 717.577 | 748.130 | 703.577 | 574 |

### Did not use VA health services in prior 12 months

**PC-PTSD**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.769 | 0.192 | -1.364 | 0.173 |
| Unadjusted | fmssSubscore | 0.951 | 0.046 | -1.080 | 0.280 |
| Unadjusted | indNotPTSDTRUE | 3.520 | 0.273 | 4.612 | 0.000 |
| Unadjusted | fmssSubscore:indNotPTSDTRUE | 0.970 | 0.064 | -0.480 | 0.632 |
| Adjusted | (Intercept) | 0.861 | 0.222 | -0.675 | 0.500 |
| Adjusted | fmssSubscore | 0.962 | 0.047 | -0.820 | 0.412 |
| Adjusted | countSocialMediaExclFB | 1.005 | 0.092 | 0.049 | 0.961 |
| Adjusted | indSuicideConsideredEverTRUE | 1.037 | 0.198 | 0.182 | 0.856 |
| Adjusted | countSuicideAttempts | 0.667 | 0.146 | -2.778 | 0.005 |
| Adjusted | indNotPTSDTRUE | 3.197 | 0.280 | 4.146 | 0.000 |
| Adjusted | fmssSubscore:indNotPTSDTRUE | 0.963 | 0.065 | -0.586 | 0.558 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 797.432 | 578 | -373.685 | 755.370 | 772.815 | 747.370 | 575 |
| Adjusted | 797.432 | 578 | -368.772 | 751.544 | 782.073 | 737.544 | 572 |

**PHQ-2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.818 | 0.239 | -0.838 | 0.402 |
| Unadjusted | fmssSubscore | 0.898 | 0.060 | -1.776 | 0.076 |
| Unadjusted | indNotPHQTRUE | 2.354 | 0.288 | 2.973 | 0.003 |
| Unadjusted | fmssSubscore:indNotPHQTRUE | 1.055 | 0.071 | 0.750 | 0.453 |
| Adjusted | (Intercept) | 0.968 | 0.268 | -0.123 | 0.902 |
| Adjusted | fmssSubscore | 0.907 | 0.060 | -1.627 | 0.104 |
| Adjusted | countSocialMediaExclFB | 0.972 | 0.091 | -0.317 | 0.751 |
| Adjusted | indSuicideConsideredEverTRUE | 1.046 | 0.198 | 0.229 | 0.819 |
| Adjusted | countSuicideAttempts | 0.633 | 0.145 | -3.143 | 0.002 |
| Adjusted | indNotPHQTRUE | 2.085 | 0.295 | 2.488 | 0.013 |
| Adjusted | fmssSubscore:indNotPHQTRUE | 1.058 | 0.071 | 0.791 | 0.429 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 798.635 | 579 | -382.271 | 772.541 | 789.994 | 764.541 | 576 |
| Adjusted | 798.635 | 579 | -375.752 | 765.504 | 796.045 | 751.504 | 573 |

**AUDIT-C**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 1.876 | 0.211 | 2.983 | 0.003 |
| Unadjusted | fmssSubscore | 0.910 | 0.052 | -1.799 | 0.072 |
| Unadjusted | indNotAuditCTRUE | 0.682 | 0.269 | -1.424 | 0.154 |
| Unadjusted | fmssSubscore:indNotAuditCTRUE | 1.049 | 0.065 | 0.735 | 0.462 |
| Adjusted | (Intercept) | 2.302 | 0.233 | 3.581 | 0.000 |
| Adjusted | fmssSubscore | 0.919 | 0.053 | -1.593 | 0.111 |
| Adjusted | countSocialMediaExclFB | 0.988 | 0.089 | -0.136 | 0.892 |
| Adjusted | indSuicideConsideredEverTRUE | 0.831 | 0.190 | -0.976 | 0.329 |
| Adjusted | countSuicideAttempts | 0.610 | 0.143 | -3.458 | 0.001 |
| Adjusted | indNotAuditCTRUE | 0.655 | 0.274 | -1.544 | 0.123 |
| Adjusted | fmssSubscore:indNotAuditCTRUE | 1.053 | 0.066 | 0.789 | 0.430 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 795.844 | 577 | -394.554 | 797.107 | 814.545 | 789.107 | 574 |
| Adjusted | 795.844 | 577 | -383.485 | 780.971 | 811.488 | 766.971 | 571 |

**DSI-SS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model | term | oddsratio | std.error | statistic | p.value |
| Unadjusted | (Intercept) | 0.934 | 0.269 | -0.254 | 0.799 |
| Unadjusted | fmssSubscore | 0.935 | 0.072 | -0.936 | 0.349 |
| Unadjusted | indNotDSISSTRUE | 1.900 | 0.309 | 2.078 | 0.038 |
| Unadjusted | fmssSubscore:indNotDSISSTRUE | 0.996 | 0.080 | -0.052 | 0.958 |
| Adjusted | (Intercept) | 1.249 | 0.313 | 0.709 | 0.479 |
| Adjusted | fmssSubscore | 0.944 | 0.072 | -0.800 | 0.424 |
| Adjusted | countSocialMediaExclFB | 0.991 | 0.089 | -0.098 | 0.922 |
| Adjusted | indSuicideConsideredEverTRUE | 0.952 | 0.199 | -0.249 | 0.803 |
| Adjusted | countSuicideAttempts | 0.622 | 0.144 | -3.304 | 0.001 |
| Adjusted | indNotDSISSTRUE | 1.504 | 0.328 | 1.245 | 0.213 |
| Adjusted | fmssSubscore:indNotDSISSTRUE | 1.000 | 0.080 | 0.001 | 0.999 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| model | null.deviance | df.null | logLik | AIC | BIC | deviance | df.residual |
| Unadjusted | 798.241 | 579 | -392.070 | 792.140 | 809.592 | 784.140 | 576 |
| Adjusted | 798.241 | 579 | -384.307 | 782.614 | 813.156 | 768.614 | 573 |

# Respond to peer review comments

On Jul 25, 2018, at 1:46 PM, Alan Teo [teoa@ohsu.edu](mailto:teoa@ohsu.edu) wrote:

Hi Ben,

Hope summer is going great for you! Could you respond to two of the peer review comments? I’d appreciate if you could provide information to include in the response letter and any additional text to include in the paper.

For your convenience I’ve attached the paper and appended the two items below:

1. Were demographic variables such as age, sex, marital status, etc. related to the frequency of social contact (either in-person or Facebook)? These demographic characteristics, in particular, may meaningfully relate to your constructs of interest and provide a context for some of the findings.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| yvariable | fb\_freq | mean | sd | min | max | n | freq |
| age | Less\_than\_several\_times\_a\_day | 42.8 | 12.9 | 22 | 75 | 133 | 22.7% |
| age | Several\_times\_a\_day | 39.2 | 11.6 | 20 | 74 | 452 | 77.3% |

##   
## Welch Two Sample t-test  
##   
## data: age by fb\_freq  
## t = 2.9466, df = 198.73, p-value = 0.003597  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 1.214001 6.126840  
## sample estimates:  
## mean in group Less\_than\_several\_times\_a\_day   
## 42.84962   
## mean in group Several\_times\_a\_day   
## 39.17920

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| gender | fb\_freq | n | N | freq |
| 1 | Less\_than\_several\_times\_a\_day | 108 | 472 | 0.229 |
| 1 | Several\_times\_a\_day | 364 | 472 | 0.771 |
| 2 | Less\_than\_several\_times\_a\_day | 25 | 111 | 0.225 |
| 2 | Several\_times\_a\_day | 86 | 111 | 0.775 |
| 99 | Several\_times\_a\_day | 2 | 2 | 1.000 |

##   
## Pearson's Chi-squared test  
##   
## data: dfTemp$gender and dfTemp$fb\_freq  
## X-squared = 0.5971, df = 2, p-value = 0.7419

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| marital | fb\_freq | n | N | freq |
| Single/Divorce/Widowed/Separated | Less\_than\_several\_times\_a\_day | 53 | 222 | 0.239 |
| Single/Divorce/Widowed/Separated | Several\_times\_a\_day | 169 | 222 | 0.761 |
| Married or living as married | Less\_than\_several\_times\_a\_day | 79 | 362 | 0.218 |
| Married or living as married | Several\_times\_a\_day | 283 | 362 | 0.782 |

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: dfTemp$marital and dfTemp$fb\_freq  
## X-squared = 0.22395, df = 1, p-value = 0.636

Age was significantly associated with frequency of Facebook use fb\_freq (collapsed groups). Several-times-a-day Facebook users were slightly younger on average. The difference was only 3.7 years (42.8 years versus 39.2 years). Gender and marital status (collapsed groups) are not significantly associated with frequency of Facebook use.

1. How highly correlated are in-person contact with Facebook contact? Authors should address the potential concerns of multicollinearity of IVs in the logistic regression model.

Rerun analyzeRQ[123].Rmd without comm\_inperson as a covariate in covar. Compare with output from commit 632302 (6/11/2018).

* The models including comm\_inperson had slightly attenuated coefficients for comm\_facebook
* The models not including comm\_inperson had coefficients for comm\_facebook that were slightly away from the null; but still not significantly different from the null
* Conclusion: the correlation between comm\_inperson and comm\_facebook does not greatly bias the association between comm\_facebook and any of the outcomes