# A Study of the Life and Health of LGB People in a Changing Society 

# Methodology and Technical Notes <br> Gallup Quantitative Survey 

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## About the Generations Study

The Generations study ${ }^{1}$ was designed to examine health and well-being across three generations of non-transgender sexual minorities. The study explores identity, stress, health outcomes, and health care and service utilization among sexual minorities in three generations of adults who came of age during distinctly different historical contexts. It is based on minority stress theory, which states that the social and legal environment for sexual minorities, characterized by stigma and prejudice, leads to excess stress (e.g., exposure to violence and discrimination), which, in turn, leads to adverse health outcomes and health disparities (Meyer, 2003). Today's LGB youth have come of age in a society that is more accepting of sexual diversity than ever in the past. As the social and legal environment of sexual minorities in the United States improves, we set to examine whether exposure to stress would reduce and health would improve, as would be predicted by minority stress theory. Because of its focus on the social environment, minority stress theory leads us to predict that with improvement in the social conditions of sexual minority people, the character of stress processes, and associated health outcomes affecting sexual minority people will also change. Thus, the study aimed to assess whether younger cohorts of sexual minority people differ from older cohorts in how they experience stress related to prejudice and everyday forms of discrimination, and whether patterns of resilience differ between different sexual minority cohorts. Additionally, the study aimed to examine how differences in stress experience affect mental health and well-being, including depressive and anxiety symptoms, substance and alcohol use, and suicide ideation and behavior, and how younger sexual minority people utilize LGBT-oriented social and health services, relative to older cohorts.

## Generations Recruitment

Generations participants were recruited by Gallup, Inc., a survey research consulting company (http://www.gallup.com/) using the Gallup Daily Tracking Survey as initial contact. Generations participants were screened and enrolled in the study between March 28, 2016 - March 30, 2017. An enhancement oversample, recruiting Back and Latino respondents was screened and enrolled between April 1, 2017 - March 30, 2018. Research participants provided oral consent to be screened, due to minimal risk.

The Daily Tracking Survey is a telephone interview of a national probability sample of 1,000 adults ages 18 and older daily ( 350 days a year) to inquire about topics including the respondents' politics, economics and general well-being. Gallup respondents include

[^0]English and Spanish-speaking individuals from all 50 U.S. states and the District of Columbia.

Gallup uses a dual-frame sampling procedure, which includes random-digit dialing (RDD) to reach both landline and cellphone users, as well as an additional random selection method for choosing respondents with landlines. Gallup stratifies the RDD list to ensure that the unweighted samples are proportionate by U.S. Census region and time zone. Gallup weights the data daily to compensate for disproportionalities in nonresponse and selection probabilities.

The Generations study used a 2-phase recruitment procedure. In the first phase, utilizing a question asked of all Gallup respondents, all sexual minority individuals were identified. This question to assess sexual orientation and gender identity, asked by the phone interviewer, is "I have one final question we are asking only for statistical purposes. Do you, personally, identify as lesbian, gay, bisexual, or transgender?"

In the second phase, respondents who were thus identified as LGBT were then assessed for sexual identity, gender identity and other eligibility criteria, and if eligible were invited to participate in the Generations study and sent a survey questionnaire by mail or email link.

Respondents were eligible if they identified as sexual minority (and not transgender) in response to a question that asked if they were lesbian, gay, bisexual, queer, or samegender loving and were in the age and race/ethnicity groups targeted for the 3 cohorts under investigation in Generations: ages $18-25,34-41$, or $52-59$; Black, Latino, or White or multi-racial including one of these; completed 6th grade at least, and if they spoke English well enough to conduct the phone interview in English. (Respondents who were transgender, regardless of their sexual orientation, were screened for participation in a sister TransPop study; respondents who were gender nonbinary but not identified as transgender were included in the Generations study.)

Respondents who were eligible for participation in Generations were invited to participate in the study. If they agreed, they were emailed or mailed a survey questionnaire to complete by self-administration (via a web link or printed questionnaire, respectively). Respondents were sent $\$ 25$ gift certificate (as an Amazon gift card by email or as cash by mail).

Participants responded to the survey by self-administering the study questionnaire either online via a link provided in an email or on paper via a mailed questionnaire returned in a pre-stamped preaddressed envelope.

Participants read an information sheet (See Appendix 1) prior to beginning the survey and consented by filling out the questions and submitting it to the researchers. No signed consent forms were collected because it was determined that a signed consent form, it if were collected, would impose an unnecessary risk to the respondents' confidentiality.

The study protocol was reviewed by the Gallup IRB, the UCLA IRB and the IRBs of collaborating institutions through reliance on UCLA IRB. Collaborating institutions have included Columbia University, the University of Texas at Austin, the University of California, Santa Cruz, the University of California, San Francisco, the University of Arizona, the University College London, UK, and the University of Surrey, UK.

Following this baseline interview, respondents are asked to complete two follow-up surveys, using the same modality (mail or web) and receive the same compensation of $\$ 25$ per interview, one year apart, at Year 2 and Year 3.

## Data sources described in this document

1. Gallup survey-Gallup survey administered to all respondents as part of the Gallup Daily phone survey (part of recruitment and screening).
2. Gallup screen-A screen conducted by Gallup on phone to determine eligibility for the Generations survey (additional screening).
3. Generations survey-A self-administered survey completed online via link sent by email or on paper via mailed questionnaire to all eligible Generations respondents (total of \#\# items).

While the dataset consists mostly of data obtained from the Generations survey (variables affixed with "wl" prefix), key variables are also included from the Gallup survey (affixed with " $g$ " prefix) and Gallup screen (affixed with "screen_" prefix").

## Generations eligibility

Eligibility for the Generations study was assessed in two stages through items that already existed on the Gallup Daily Tracking Survey (source: Gallup survey), as well as additional screener questions that the Generations Study team included (source: Gallup screen). First, respondents were identified as potentially eligible using responses to 5 items from the Gallup Daily Tracking Survey:

| Table 1. Preliminary eligibility criteria |  |  | Response Options |
| :--- | :--- | :--- | :--- |
| Measure | Question Text | Generations <br> Eligibility |  |
| Age | Please tell me your age | Open Ended | $18-25$ |
| Education | What is the highest level of <br> school you have completed <br> or the highest degree you <br> have received? | Less than a high school <br> diploma (Grades 1 through 11 <br> or no schooling | ling <br> criteria <br> assessed in <br> subsequent <br> education <br> question, i.e., <br> minimum 6 |


|  |  |  | grade (below). |
| :---: | :---: | :---: | :---: |
|  |  | High school graduate (Grade 12 with diploma or GED certificate) | Eligible |
|  |  | Technical, trade, vocational or business school or program after high school | Eligible |
|  |  | Some college - college, university, or community college -- but no degree | Eligible |
|  |  | Two year associate degree from a college, university, or community college | Eligible |
|  |  | Four year bachelor's degree from a college or university (e.g., $B S, B A, A B$ ) | Eligible |
|  |  | Some postgraduate or professional schooling after graduating college, but no postgraduate degree (e.g., some graduate school) | Eligible |
|  |  | Postgraduate or professional degree, including master's, doctorate, medical, or law degree (e.g., MA, MS, PhD, MD, $J D$ ) | Eligible |
|  | Are you of Hispanic, Latino, or Spanish origin - such as | Yes | Eligible if ethnicity $=$ "yes" |
| Ethnicity | Mexican, Puerto Rican, Cuban, or other Spanish origin? | No | and race $=$ <br> "White" only |
|  |  | White | "White" + <br> "Black or <br> African <br> American" only <br> or race $=$ "Black |
| Race | Which of the following describes your race? (up to five responses allowed) | Black or African American | or African <br> American" only <br> or race $=$ "Black or <br> African |
|  |  | Asian | American" + <br> "Asian" and/or <br> "American <br> Indian or Alaska <br> Native" and/or |


|  |  |  | "Native <br> American Indian or Alaska <br> Native |
| :--- | :--- | :--- | :--- |
|  |  | Hawaiian or <br> Pacific Islander" |  |
|  |  | Native Hawaiian or Pacific <br> Islander |  |
| Sexual <br> orientation/ <br> gender <br> identity | I have one final question we <br> are asking only for <br> statistical purposes. Do you, <br> personally, identify as <br> lesbian, gay, bisexual, or <br> transgender? | Yes, do | No, do not |

Second, people meeting eligibility requirements based on the five items above were then informed they were potentially eligible for participation in the Generations study. If interested in participation, they were then asked the following 2 questions from the Generations study team to determine final eligibility:

Table 2. Additional eligibility criteria

| Measure | Question Text | Response Options | Generations Eligibility |
| :--- | :--- | :--- | :--- |
| Education, <br> 6th grade or <br> higher | What is the highest <br> level of school you <br> have completed? <br> (Only asked of those <br> selecting "Less than <br> a high school <br> diploma (Grades 1 <br> through 11 or no <br> schooling" on <br> education | 5th grade or lower | 6th grade or higher |
|  | Sexual | Not eligible |  |
|  |  |  |  |


|  |  | Don't know | Eligible |
| :---: | :---: | :---: | :---: |
|  |  | Refuse | Eligible |
| Gender identity | On your original birth certificate, was your sex assigned as female or male? <br> Do you currently describe yourself as man, woman, or transgender? | Female | Eligible if currently identify as "female" or assigned "female" at birth, or currently identify as "man" or assigned "male" at birth. <br> Ineligible if currently identify as "transgender" or assigned "female" at birth and currently identify as "man" or assigned "male" at birth and currently identify as "woman". Respondents were screened into TransPop survey. |
|  |  | Man |  |
|  |  | Woman |  |
|  |  | Transgender |  |

Respondents were eligible to participate in Phase 2, the self-administered survey, if they identified as sexual minorities but were not transgender. Respondents who were transgender, regardless of their sexual orientation, were screened for participation in a companion study, TransPop (see www.TransPop.org), which included questions to address issues that are specific to transgender people (e.g., transitioning). Respondents who were sexual minorities and gender nonbinary, but did not identify as transgender, were included in the Generations study.

Eligibility was restricted to three age cohorts of interest in the Generations study (18-25, 34-41, or 52-59) because the scientific focus of Generations was on differences among age cohorts related to the social environment when the respondents were children. Eligibility was also limited to the three largest U.S. racial and ethnic groups (Black, Latino, or White, or multiple racial and ethnic identities that included at least one of these) because estimates showed that we would not be able to recruit a sufficient number of respondents who were Asian (5.9\% of U.S. population) or Native American/Alaskan Native (1.3\%) to satisfy power requirements for Generations. Eligibility was restricted to English-speaking people with above 5th-grade education to ensure they are competent to self-administer of the survey questionnaire.

## Generations Sample

## How to characterize the sample?

The term "non-transgender sexual minorities" accurately describes the sample. Because all respondents were eligible by first identifying as "lesbian, gay, bisexual, or transgender," "non-transgender LGB" is also correct. "Sexual minorities" is more fitting because respondents reported diverse sexual identities (e.g., queer, same-gender-loving, pansexual, asexual) in the subsequent screen and in the Generations survey questionnaire.

In terms of gender identity, Generations participants are non-transgender, meaning they include cisgender and gender non-binary individuals who did not identify as transgender. Transgender people, including transgender-identified gender nonbinary people, were recruited into the TransPop study (see www.TransPop.org).

The sample is representative of the target population in the United States, but, like all probability samples, it is not necessarily representative of all people in the United States. For example, our target population and sampling frame excluded people with no phone (cell or landline), people in specific age groups, people with lower educational attainment, people who speak only Spanish, and people who identified as Asian and American Indian/Alaska Native (but Asian and American Indian/Alaska Native people who were multi-racial that included White, Black, or Latino identities were included).

## Sample: Baseline (Wave 1)

The Generations baseline sample was recruited between March 28, 2016 and March 30, 2017. In the first year of recruitment 366,644 participants were screened by Gallup for inclusion in the Generations study. Of them, 12,837 (3.5\%) were identified as LGBT and $3,525(27.5 \%)$ of them were eligible for Generations based on the eligibility criteria described above. Of those eligible, $2,840(80 \%)$ agreed to participate in the survey and of them, 1,369 ( $48 \%$ ) completed the survey, for a total cooperation rate of $39 \%$.

To increase the number of racial/ethnic minority respondents in Wave 1 we oversampled Black and Latino respondents using the same procedures by extending the recruitment period (April 1, 2017 to March 30, 2018). The final dataset for the Generations baseline survey included 1,563 respondents: 1,369 were recruited into the original sample (20162017) and 194 were recruited into the enhancement oversample (2017-2018).

Of the 1,563 baseline respondents who were enrolled, a total of 45 people who were incorrectly screened in were removed from the dataset, including 27 respondents were identified as transgender and 18 respondents were of an ineligible age. The final Generations baseline sample size was, thus, 1,518 , including 1,331 from original sample and 187 from enhancement sample (see Table 4b).

The variable w1sample can be used to identify whether respondents were recruited into the original baseline sample or the enhancement (oversample) baseline sample.

## Sample: Wave 2

Wave 2 of data collection occurred between April 1, 2017 and March 30, 2018.
Respondents were re-interviewed approximately one year after they completed the baseline survey. Thirty respondents who agreed to participate in the Generations survey at baseline but did not submit a baseline survey in time for inclusion in the sample completed the Wave 2 survey. Given the longitudinal design of the Generations study, these 30 respondents were removed from the wave 2 sample. The enhancement oversample was not included in the longitudinal design of this study because their recruitment took place during Wave 2 of the original sample. The final Generations Wave 2 sample was 894 ( $67 \%$ retention from original baseline sample).

## Sample: Wave 3

Wave 3 of data collection occurred between April 1, 2018 and March 30, 2019.
Respondents were re-interviewed approximately a year after completing Wave 2 and 2 years after completing the baseline survey. Only respondents who participated in the original sample of participants were surveyed at Wave 3 (the enhancement oversample was not included in the longitudinal design of this study). The final Generations Wave 3 sample was 707 ( $53 \%$ retention from original baseline sample).

The variable waveparticipated can be used to identify which waves of data collection respondents participated in. In total, 616 respondents participated in all three waves of data collection.

| Table 3. Recruitment statistics |  |  |
| :--- | :--- | :--- |
| Wave 1 | $\mathbf{N}$ | $\mathbf{\%}$ |
| Total screened | 366,644 |  |
| LGBT Total ("...Do you, personally, identify as lesbian, gay, <br> bisexual, or transgender?" = "yes") | 12,837 | $\mathbf{3 . 5 \%}$ |
| Met eligibility criteria for Generations Study | 3,525 | $\mathbf{2 7 . 5 \%}$ |
| Agreed to participate in the survey | 2,830 | $\mathbf{8 0 \%}$ |
| Completed survey | 1,369 | $\mathbf{4 8 \%}$ |
| Response rate |  | $\mathbf{3 9 \%}$ |
| Enhancement sample | 194 |  |
| Total | 1,563 |  |
| Removed due to inconsistencies with eligibility criteria | -45 |  |
| Total Wave 1 | 1,518 |  |
| Wave 1 to 2 Retention* | 894 | $\mathbf{6 7 \%}$ |
| Wave 1 to 3 Retention* | 707 | $\mathbf{5 3 \%}$ |

*Does not include enhancement sample, i.e., individuals followed from original sample $(1,331)$
Table 4a. Final sample: Generations respondents by gender, race/ethnicity, and age cohort ( $\mathrm{N}=$ 1,518)

|  | White | Black | Latino | Total |
| :--- | :---: | :---: | :---: | :---: |
|  | Total $\mathrm{N}(\mathrm{n}$ <br> baseline, n <br> enhancement $)$ | Total N (n <br> baseline, n <br> enhancement | Total N (n <br> baseline, n <br> enhancement $)$ | Total N (n <br> baseline, n <br> enhancement $)$ |
|  | Cohort 1 (18-25 years) |  |  |  |
| Male | $153(153,0)$ | $35(21,14)$ | $84(63,21)$ | $\mathbf{2 7 2 ( 2 3 7 , 3 5 )}$ |
| Female | $213(213,0)$ | $90(55,35)$ | $95(65,30)$ | $\mathbf{3 9 8 ( 3 3 3}, \mathbf{6 5})$ |
|  | Cohort 2(34-41 years) |  |  |  |


| Male | $93(93,0)$ | $30(22,8)$ | $44(27,17)$ | $\mathbf{1 6 7 ( 1 4 2 , 2 5 )}$ |
| :--- | :---: | :---: | :---: | :---: |
| Female | $141(141,0)$ | $40(23,17)$ | $24(11,13)$ | $\mathbf{2 0 5 ( 1 7 5 , 3 0 )}$ |
|  | Cohort 3(52-59 years) |  |  |  |
| Male | $212(212,0)$ | $28(19,9)$ | $27(14,13)$ | $\mathbf{2 6 7 ( 2 4 5 , 2 2 )}$ |
| Female | $169(169,0)$ | $16(13,3)$ | $24(17,7)$ | $\mathbf{2 0 9}(\mathbf{1 9 9}, \mathbf{1 0})$ |
| Total | $\mathbf{9 8 1}(981,0)$ | $\mathbf{2 3 9}(\mathbf{1 5 3}, \mathbf{8 6})$ | $\mathbf{2 9 8}(197, \mathbf{1 0 1 )}$ | $\mathbf{1 , 5 1 8}(\mathbf{1 , 3 3 1}, \mathbf{1 8 7})$ |

Table 4b. Generations respondents, by recruitment and interview wave

|  | Baseline | Wave 2 | Wave 3 | Notes |
| :--- | :--- | :--- | :--- | :--- |
|  | 616 | 616 | 616 | All waves |
|  | 346 |  |  | Naseline only |
|  | 187 | 278 | N/A <br> Baseline <br> enhancement <br> sample* |  |
|  | 278 |  | Baseline and Wave <br> 2 only |  |
| Removed from <br> dataset, available upon <br> request | 91 | 18 (age <br> ineligible) | $\mathbf{1 , 5 1 8}$ | 91 |
|  |  | Baseline and Wave <br> 3 only |  |  |
|  | 27 (transgender) |  |  |  |

*Enhancement sample was not eligible for Wave 2 because their recruitment took place during the year that Wave 1 respondents completed Wave 2.

## Data Processing and Transformation

New variable creation
Several variables were created using items from the Generations survey. The calculated variables are included in the final dataset. Each newly created variable is described below.

Cohort.
Respondents were asked "in what year were you born?" (variable: w1q165), and a numeric age (variable: w1age) was calculated by subtracting birth year from the year in which the respondent completed the baseline survey (2016, 2017, or 2018).
Respondents were then assigned to one of three Generational cohorts, below (variable: cohort). Since age was assessed at multiple time points (at screening, as well as on the survey), consistency across the two measures was assessed. Small variations of 2 years or fewer were allowed to account for changes in age between screening and survey, and also for possible errors in reporting. As such, the age ranges of each cohort were expanded by $\pm 2$ years, as indicated in Table 5. 19 respondents did not provide a response to item
w1q165, and their age reported at screening was assigned to wlage; these respondents are retained in the sample.

| Table 5. Generations names |  |  |
| :--- | :--- | :--- |
| Target Age <br> Range | Expanded <br> Age Range | Cohort name and supporting word |
| $18-25$ | $16-27$ | Cohort name: "cultural inclusion" |
|  |  | Support word: equality |
| $33-41$ | $32-43$ | Cohort name: "institutional advancement" |
|  |  | Supporting word: visibility |
| $52-59$ | $50-61$ | Cohort name: "identity formation" |
|  |  | Supporting word: pride |

Race.
We have two race variables screen_race, which is a more restrictive 3-categories race/ethnicity variable that determined eligibility and w1race, which allowed eligible respondents to indicate a more precise race/ethnic identity. Eligibility restrictions based on race/ethnicity were implemented to ensure sufficient number of respondents in each category of race/ethnicity so that meaningful statistical analyses could be performed. Based on prior experience with Gallup recruiting of LGBT respondents since 2012 our estimates showed that we could not recruit sufficient numbers of Asian and American Indian/Alaska Native participants in each of the age/gender cells.
screen_race, a 3-categories race/ethnicity variable, was calculated based on respondents' reported races and ethnicities at screening (see Table 1 for specific questions). Eligible were only Black, Latino and White respondents and respondents who indicated multiple race/ethnic identities that included these three. This means that Asian and American Indian/Alaska Native individuals who had no bi- or multi-race identity that included White, Black, or Latino, were excluded from this study (see Eligibility, above).

We used the following algorithm to classify people in one of the three race/ethnicity categories: Anyone who indicated Hispanic/Latino was categorized as Latino regardless of any other entries; then, anyone who indicated Black/African American was categorized as Black regardless of other races selected, except Latino; then, anyone who indicated White including any other race, except Latino and Black, was categorized as White.

Thus, for example, a respondent identifying as both Latino and American Indian would be coded as Latino; a respondent identifying as both Black and White were coded as Black, and respondents identifying as White and Asian were recoded as White. However, a respondent identifying as both Asian and/or American Indian would not have been eligible for the study.
w1race is a less restrictive race/ethnicity variable. It was defined using responses from the Generations survey (variables: w1q20_1-w1q20_7). This variable was included to provide more nuanced personal identification of race/identity among eligible respondents
who completed the survey. Response categories include White, Black/African American, Hispanic/Latino, Asian, Middle Eastern, Native Hawaiian/Pacific Islander, Middle Eastern, American Indian, and Multiracial. Respondents selecting more than one race/ethnicity on items wlq20_1 - wlq20_7 were categorized as "multiracial." 18 respondents did not provide a race response on the survey (w1q20_1-w1q20_7), and so their race reported on the Gallup screen (variable: screen_race) was assigned.

Race/ethnicity was not re-assessed at waves 2 and 3.
Sex assigned at birth.
Respondents' sex assigned at birth (variable: w1sex) was based on their reported sex at birth on the survey (variable: w1q27). However, 22 respondents who had missing data on variable w1q27 were assigned a value based on their sex reported on the Gallup survey. The Gallup survey asked respondents, "I am required to ask, are you male or female?" Response options were: male, female.

Sex assigned at birth was not re-assessed at waves 2 and 3 .

## Gender identity.

Respondents were assigned a current gender identity (variable: w1gender) based on their reported current gender identity on the survey (variable: w1q28). Since respondents who identified as transgender were dropped from the dataset, no respondents identified as transgender (response option 3: Transgender Woman/Male-to-Female (MTF) or 4: Transgender Man/Female-to-Male (FTM))
However, 15 respondents did not provide a gender identity on the survey. Of them, 10 were assigned the gender identity reported on the Gallup screen ${ }^{2}$. The remaining 5 were also missing a gender identity on the Gallup screen, and so their values were assigned to be consistent with the sex assigned at birth (e.g., females were assigned as "women").

A third calculated variable (w1sex_gender) is included in the dataset, in which responses from "w1sex" and "wlgender" were combined into a single analytic variable with 4 response categories: women, non-transgender; men, non- transgender; genderqueer/nonbinary (GQNB), female; GQNB, male.

## Sexual identity.

Two calculated sexual identity variables are included in the dataset. The first variable (w1sexualid) is equivalent to respondents' self-reported sexual identity on the survey

[^1](variable: w1q29). However, 71 respondents provided a write-in response (variable: w1q29_t_verb). These 71 responses were placed into existing categories when possible (e.g., "DYKE" write-in response was placed into the "Lesbian" identity category), and new categories were created for common write-in responses (e.g., pansexual). The resulting categorizations are shown in Table 6. As such, the final variable (w1sexualid) contains more response categories than the original survey item (w1q29). 13 respondents did not provide a sexual identity on the survey, and their sexual identity reported on the Gallup screen was assigned in this variable.

| Table 6. Sexual identity write-in responses and resulting categorizations, baseline sample |  |
| :--- | :--- |
| Resulting <br> categorization <br> (w1sexualid) | Write-in response (w1q29_t_verb) |
| Lesbian | DYKE |
| Lesbian | Lesbian and Same Gender Loving |
| Gay | GAY/BICURIOUS |
| Asexual spectrum | demi sexual |
| Asexual spectrum | Bi-romantic Asexual |
| Asexual spectrum | NON-SEXUAL |
| Asexual spectrum | Asexual |
| Asexual spectrum | Asexual |
| Asexual spectrum | ASEXUAL |
| Asexual spectrum | Asexual; panromantic (No sexual attraction, close romantic <br> emotional attachment to any gender) |
| Asexual spectrum | Asexual |
| Asexual spectrum | Asexual, Pan-romantic. |
| Asexual spectrum | demisexual |
| Asexual spectrum | Panromantic asexual |
| Asexual spectrum | asexual |
| Asexual spectrum | Demisexual towards women but likes men |
| Asexual spectrum | Asexual |
| Asexual spectrum | Asexual |
| Asexual spectrum | Asexual |
| Asexual spectrum | Demisexual |
| Asexual spectrum | Asexual |
| Asexual spectrum | asexual |
| Asexual spectrum | Demisexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
|  |  |


| Pansexual | Pansexual |
| :--- | :--- |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexaul |
| Pansexual | pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | pansexual |
| Pansexual | Fluid |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Lover of All |
| Pansexual | pansexual |
| Pansexual | PANSEXUAL |
| Pansexual | Pansexual |
| Pansexual | PANSEXUAL |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual (loving without gender bias) |
| Pansexual | Pansexual |
| Pansexual | PANSEXUAL; DEMISEXUAL $]$ |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Pansexual | Pansexual |
| Anti-label | just me |
| Anti-label |  |
| Anti-label | Other |
| Other | Other |


| Other | [left blank] |
| :--- | :--- |

* Note: When a respondent provided two identity labels in their write-in response, the first label chosen was used for categorization purposes (e.g., "Lesbian and Same Gender Loving coded" as "Lesbian"), except for asexual, which took precedence when there were two categories in the write-in. Four respondents selected "other," but did not provide a write in response. These respondents remain categorized as "other."

A second calculated variable (w1sexminid) was also included, in which respondents reporting a sexual minority identity were categorized into 1 of 3 categories: lesbian/gay (lesbian, gay), bisexual (bisexual), and other sexual minority identity (queer, pansexual, same-gender loving, asexual spectrum, anti-label, other). 11 respondents identified as straight/heterosexual and were recoded as missing for the w1sexminid variable. These 11 respondents screened in as LGB but identified as straight/heterosexual in the survey.

Sexual identity was re-assessed at waves 2 and 3. Four variables (w2sexualid, w3 sexualid, w2sexminid, and w3sexminid) were created using the same approach described above.

## Education.

Responses from the Gallup Daily Tracking Survey variable (geducation) were recategorized into two additional variables with fewer response options: geduc1 (high school or less, some college, college completed, more than college completed) and geduc2 (high school or less, more than high school).

Education was not re-assessed at waves 2 or 3 .
Geography.
Urbanicity
Using respondents' zip codes, urbanicity scores were calculated using the USDA RuralUrban Commuting Area coding system (USDA, 2013). RUCA scores are included in the dataset (variable: gruca). 2010 RUCA codes were used, and scores of 1-3 represent urban zip codes, while scores of greater than 3 represent non-urban zip codes. The variable, gurban was created using this scoring system.

23 respondents' zip codes did not have a corresponding RUCA code or corresponding urbanicity score. These 23 values were imputed using Predictive Mean Matching, described in detail in a later section. Both un-imputed (gruca, gurban) and imputed (gruca_i, gurban_i) versions of the variables are included in the dataset.

Urbanicity was not re-assessed at waves 2 or 3 .

## Census region and division

Using respondents' states of residence (gzipstate), respondents were assigned to their corresponding Census regions (gcenreg) and divisions (gcendiv) (US Census Bureau, 2015).

There are 9 Census divisions:

1. New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)
2. Middle Atlantic (New Jersey, New York, Pennsylvania)
3. East North Central (Indiana, Illinois, Michigan, Ohio, Wisconsin)
4. West North Central (Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota)
5. South Atlantic (Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia)
6. East South Central (Alabama, Kentucky, Mississippi, Tennessee)
7. West South Central (Arkansas, Louisiana, Oklahoma, Texas)
8. Mountain (Arizona, Colorado, Idaho, New Mexico, Montana, Utah, Nevada, Wyoming)
9. Pacific (Alaska, California, Hawaii, Oregon, Washington)

There are 4 corresponding Census regions:

1. Northeast (New England, Middle Atlantic regions)
2. Midwest (East North Central, West North Central regions)
3. South (South Atlantic, East South Central, West South Central regions)
4. West (Mountain, Pacific regions)

Census region and division were not re-assessed at waves 2 or 3 .

## Distance from an LGBT community health center

Distance from the respondents' residence to the nearest LGBT community health center (gmilesaway). This distance was calculated using geocoded health center data and respondents' zip codes (gzipcode), as described by Martos et al. (2017). A dichotomous variable (gmilesaway2) was created to differentiate between respondents living less than 60 miles away from the nearest LGBT health center and those living 60 or more miles away. A 60-mile distance was chosen arbitrarily to represent a practical travel distance of about 1-hour drive.

Distance from an LGBT community health center was not re-assessed at waves 2 or 3 .

## Poverty.

Using weighted Census estimates for poverty thresholds in 2016 and 2017 (US Census Bureau, 2018), respondents were categorized as either living in poverty (below $100 \%$ FPL) or not, based on the year they completed the Generations survey (2016 or 2017), their reported household income (wlhinc), and the reported number of people living on that household income (w1q173) (constructed variable: w1poverty) ${ }^{3}$. 32 respondents did not indicate the number of people living on their household income. Of them, 5 reported household incomes $<\$ 11,999$, and could be categorized as living below the $100 \%$ federal poverty line. The remaining 27 could not be categorized and were recoded as missing.

[^2]Another variable was created (w1povertycat) using the same thresholds above, which categorized respondents into the following income ratio categories: $<100 \%$ FPL, 100$199 \%$ FPL, $200-299 \%$ FPL, $300 \%+$ FPL. 32 respondents did not indicate the number of people living on their household income. Of them, 5 reported household incomes $>\$ 11,999$, and could be categorized as living below the $100 \%$ federal poverty line. The remaining 27 could not be categorized and were recoded as missing.

An imputed version of poverty (poverty_i, povertycat_i), using imputed household income (hinc_i) variable is also in the dataset. Poverty was not re-assessed at waves 2 or 3.

Sexual orientation change therapy.
Respondents reported their lifetime experiences receiving treatment to change their sexual orientations (wlq133: for respondents completing the survey by mail; wlq133_1w1q133_3: for respondents completing the survey by web). Three variables were calculated. First, respondents were coded dichotomously as having ever received such treatment or not (variable: w1conversion). Next, respondents were categorized according to the provider of the treatment: from a healthcare professional (variable:
w1 conversionhc) or from a religious leader (variable: w1conversionrel).
Exposure to sexual orientation change therapy was not re-assessed at waves 2 or 3 .

## Scale creation

Several items from the Generations study are part of validated scales, designed to measure constructs relevant to identity, stress, and health. Each of the scales within the Generations survey have been calculated from individual variables, according to published instructions, detailed below. The reliability of each scale was assessed with Cronbach's alpha (a), for the entire sample and then by sex at birth, cohort, and race/ethnicity, respectively. The reliability test scores are presented in Appendix 2. Two calculated variables are included in the dataset for each of the scales: an un-imputed version and an imputed version. The unimputed version has missing values for participants who were missing on one or more items that make up the scale. The imputed variable has no missing values. The steps taken to create each scale are described below.

Scale reliabilities (Cronbach's alpha) are presented in appendices 1 and 2.

## Positive Health.

Social Well-Being assessed one's "appraisal of one's circumstances and functioning in society," and serves as a measure of one's "social wellness" (Keyes, 1998). Keyes (1998) Social Well-Being scale consists of 15 items (w1q04- w1q18; e.g. "I don't feel I belong to anything I'd call a community," "My community is a source of comfort," "I have something valuable to give to the world."), each rated on a 7-point Likert scale ranging from "strongly disagree" to "strongly agree", with the middle category as "Neither agree nor disagree". To create a scale variable, 8 of the 15 items (w1q04, w1q08, w1q11, w1q12, w1q14, w1q15, w1q16, w1q17) were reverse-coded then the scale was created as
a mean score of each of the items within the scale. Lower values represent lower social well- being and higher values represent greater social well-being. Scale values range from 1 to 7 .

There were two resulting variables: "w1socialwb" (calculated only from complete cases, in which no individual scale items were missing) and "w1socialwb_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Social well-being was re-assessed at waves 2 and 3. Four variables (w2socialwb, w3socialwb, w2socialwb_i, and w3socialwb_i) were created using the same approach described above.

Satisfaction with Life (Satisfaction with Life Scale, SWLS) assessed respondents' global satisfaction with life "as a cognitive-judgmental process" (Diener et al., 1985). The scale consisted of 5 items (w1q186- w1q190; e.g., "In most ways my life is close to ideal," "The conditions of my life are excellent," "I am satisfied with life."), each rated on a 7point Likert scale ranging from "strongly disagree" to "strongly agree", with the middle category as "Neither agree nor disagree". The scale variable was created as a mean score of each of the items within the scale. Lower values represent less satisfaction with life and higher values represent greater satisfaction with life. Scale values range from 1 to 7 .

There were two resulting variables: "w1lifesat" (calculated only from complete cases, in which no individual scale items were missing) and "w1lifesat_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Satisfaction with life was not re-assessed at waves 2 or 3 .

## Identity.

Multi-group Ethnic Identity was assessed using Phinney and Ong's (2007) revised Multi-group Ethnic Identity Measure (MEIM-R). MEIM-R assessed respondents' "investigation, learning, and commitment" to their race/ethnic identities (Phinney \& Ong, 2007). The scale consisted of 6 items (w1q21-w1q26; e.g., "I have spent time trying to find out more about my race/ethnic group, such as its history, traditions, and customs," and "I have a strong sense of belonging to my own race/ethnic group." Each item was rated on a 5-point Likert scale ranging from "strongly disagree" to "strongly agree", with the middle category as "Neither agree nor disagree". The scale variable was created as a mean score of each of the items within the scale. Lower values represent less investigation, learning, and commitment to one's own race/ethnic identity, and higher values represent greater investigation, learning, and commitment. Scale values range from 1 to 5 .

There were two resulting variables: "w1meim" (calculated only from complete cases, in which no individual scale items were missing) and "w1meim_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Multi-group ethnic identity was not re-assessed at waves 2 or 3 .
Sexual Identity Centrality, a 5-item subscale from Mohr and Kendra's (2011) 27-item Lesbian, Gay, and Bisexual Identity Scale (LGBIS), assessed the degree to which respondents' sexual identities were central to their overall identities. Scale items (w1q40w1q44) included "my sexual orientation is an insignificant part of who I am" and "being an LGB person is a very important aspect of my life." Responses were recorded on a 6point Likert scale ranging from "disagree strongly" to "agree strongly." To create a scale variable, 1 item (w1q40) was first reverse-coded. Next, the scale was created as a mean score of each of the items within the scale. Lower values represent lower centrality and higher values represent greater centrality. Scale values range from 1 to 6 .

There were two resulting variables: "w1idcentral" (calculated only from complete cases, in which no individual scale items were missing) and "w1idcentral_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Sexual identity centrality was re-assessed at waves 2 and 3 . Four variables (w2idcentral, w3idcentral, w2idcentral_i, and w3idcentral_i) were created using the same approach described above.

Community connectedness, a 7 -item scale adapted from the 8 -item scale described by Frost \& Meyer (2012), assessed the desire for and strength of LGBT community affiliation among respondents. Scale items (w1q53-w1q59) included "you feel you're a part of the LGBT community," and "you are proud of the LGBT community." Responses were recorded on a 4-point Likert scale ranging from "agree strongly" to "disagree strongly." The scale variable was created as a mean score of each of the items within the scale. The final scale was reverse-coded so that lower scores represented lower community connectedness, while higher scores represented greater community connectedness. Scale values range from 1 to 4 .

There were two resulting variables: "w1 connectedness" (calculated only from complete cases, in which no individual scale items were missing) and "w1 connectedness_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Community connectedness was re-assessed at waves 2 and 3. Four variables ( $\mathbf{w} 2$ connectedness, $\mathbf{w} 3$ connectednes, $\mathbf{w} 2$ connectedness_ $\mathbf{i}$, and w3connectedness_i) were created using the same approach described above.

## Healthcare Access \& Utilization.

Healthcare Stereotype Threat, a 4-item scale modified from Abdou \& Fingerhut's
(2014) measure, assessed the degree to which respondents worried about being negatively judged by or confirming stereotypes about LGBT people with healthcare providers. Scale items (wlq60- wlq63) included "I worry about being negatively judged because of my sexual orientation or gender identity," and "I worry that evaluations of me may be
negatively affected by my sexual orientation or gender identity." Responses were recorded on a 5-point Likert scale ranging from "strongly disagree" to "strongly agree", with the middle category as "Neither agree nor disagree". The scale was created as a mean score of each of the items within the scale. Lower values represent less worry about being judged or confirming LGBT stereotypes, and higher values represent greater worry. Scale values range from 1 to 5 .

There were two resulting variables: "w1hcthreat" (calculated only from complete cases, in which no individual scale items were missing) and "w1hcthreat_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Healthcare Stereotype Threat was not re-assessed at waves 2 or 3 .

## Health Outcomes.

Mental Disability was assessed using the Kessler-6, a 6-item scale from the National Comorbidity Survey (Kessler et al., 2003). Scale items (w1q77A- w1q77F) asked respondents how often, in the past 30 days, they had felt "nervous," "hopeless," "restless or fidgety," "so depressed that nothing could cheer you up," "that everything was an effort," and "worthless." Responses were recorded on a 5-point scale ranging from "all of the time" to "none of the time." All items were first reverse-coded so that "none of the time" had a value of 1 and "all of the time" had a value of 5 . The scale was then created as the sum of all variables within the scale.
Per scale creation instructions, respondents failing to answer any single item in the scale were recorded as "missing," on the resulting scale score. In addition, an imputed version of the scale was calculated in which missing individual scale items were imputed, and a final scale score was calculated for each respondent.

The resulting scales, named "w1kessler6" and "w1kessler6_i" had values ranging from 0 to 24 .

Mental disability was re-assessed at waves 2 and 3. Four variables (w2kessler6, w3kessler6, w2kessler6_i, and w3kessler6_i) were created using the same approach described above.

There appear to be no clear standards for optimal K6 scoring. The unweighted scale has values in the range $0-24$. The scoring rule used in most applications based on standard validation studies is to classify respondents with scores of 13-24 as having probable serious mental illness and those with scores of $0-12$ as probably not having serious mental illness (Kessler et al., 2003). Furukawa and colleagues (Furukawa et al., 2003, 2008) have shown that this simple dichotomous scoring approach can be refined by using polychotomous rather than dichotomous scoring rules that collapse K6 scores into strata based on analysis of data in a clinical calibration study such that the observed prevalence of SMI differs significantly across strata. For example, one such scoring rule might collapse K6 scores into strata with K6 score values of $0,1-7,8-12,13-18$, and 19-24,
with respondents in each stratum assigned a predicted probability of serious mental illness based on the results of a clinical calibration study (Kessler et al., 2010).

Alcohol use was assessed using the Alcohol Use Disorder Identification Test (AUDITC), a 3-item scale designed to identify persons with hazardous drinking behavior, or who have active alcohol use disorders (Bush et al., 1998), including AUDs for DSM-5 (Dawson et al., 2012). The scale items (w1q85-w1q87) and available responses were "how often do you have a drink containing alcohol?" (never [0 points], monthly or less [1 point], 2-4 times a month [ 2 points], 2-3 times a week [ 3 points], 4 or more times a week [4 points]), "how many standard drinks containing alcohol do you have on a typical day?" (none [ 0 points], 1 or 2 [ 0 points], 3 or 4 [ 1 point], 5 or 6 [ 2 points], 7 to 9 [ 3 points], 10 or more [ 4 points]), and "how often do you have six or more drinks on one occasion?" (never [ 0 points], less than monthly [ 1 points], monthly [ 2 points], weekly [ 3 points], daily or almost daily [4 points]). The scale was then created as the sum of all variables in the scale. Per scale creation instructions, respondents failing to answer any single item in the scale were recorded as "missing," on the resulting scale score. In addition, an imputed version of the scale was calculated in which missing individual scale items were imputed, and a final scale score was calculated for each respondent.

The resulting scales, named "w1audite," and "w1auditc _i" had values ranging from 0 to 12.

Alcohol use was re-assessed at waves 2 and 3 . Four variables (w2auditc, w3auditc, w2auditc_i, and w3auditc) were created using the same approach described above.

The recommending screening thresholds for the AUDIT-C questions to identify alcohol use disorders or risky drinking is 4 or more for men, and 3 or more for women (Frank et al., 2008).

Drug use was assessed using the Drug Use Disorders Identification Test (DUDIT), an 11-item scale designed to identify individuals with drug- related problems (Berman et al., 2003). The scale was created as the sum of all variables (w1q90-w1q100) in the scale (see Table 7). Per scale creation instructions, respondents failing to answer any single item in the scale were recorded as "missing," on the resulting scale score. In addition, an imputed version of the scale was calculated in which missing individual scale items were imputed, and a final scale score was calculated for each respondent.

The resulting scales, named "w1dudit," and "w1dudit_i" had values ranging from 0 to 44.

| Table 7. Generations survey variables used for calculating DUDIT scale |  |  |  |
| :--- | :--- | :--- | :--- |
| Variable | Question Text | Response Options | Points |
| w1q90 | How often do you use drugs other than <br> alcohol? | Never | 0 |
|  | Once a month or less often | 1 |  |


|  |  | 2-4 times a month | 2 |
| :---: | :---: | :---: | :---: |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |
| w1q91 | Do you use more than one type of drug on the same occasion? | Never | 0 |
|  |  | Once a month or less often | 1 |
|  |  | 2-4 times a month | 2 |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |
| w1q92 | How many times do you take drugs on a typical day when you use drugs? | 0 | 0 |
|  |  | 1-2 | 1 |
|  |  | 3-4 | 2 |
|  |  | 5-6 | 3 |
|  |  | 7 or more | 4 |
| w1q93 | How often are you influenced heavily by drugs? | Never | 0 |
|  |  | Once a month or less often | 1 |
|  |  | 2-4 times a month | 2 |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |
| w1q94 | Over the past year, have you felt that your longing for drugs was so strong that you could not resist it? | Never | 0 |
|  |  | Once a month or less often | 1 |
|  |  | 2-4 times a month | 2 |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |


| w1q95 | Has it happened, over the past year, that you have not been able to stop taking drugs once you get started? | Never | 0 |
| :---: | :---: | :---: | :---: |
|  |  | Once a month or less often | 1 |
|  |  | 2-4 times a month | 2 |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |
| w1q96 | How often over the past year have you taken drugs and then neglected to do something you should have done? | Never | 0 |
|  |  | Once a month or less often | 1 |
|  |  | 2-4 times a month | 2 |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |
| w1q97 | How often over the past year have you needed to take a drug the morning after heavy drug use the day before? | Never | 0 |
|  |  | Once a month or less often | 1 |
|  |  | 2-4 times a month | 2 |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |
| w1q98 | How often over the past year have you had guilt feelings or a bad conscience because you used drugs? | Never | 0 |
|  |  | Once a month or less often | 1 |
|  |  | 2-4 times a month | 2 |
|  |  | 2-3 times a week | 3 |
|  |  | 4 times a week or more often | 4 |


| w1q99 | Have you or anyone else been hurt (mentally or physically) because you used drugs? | No | 0 |
| :---: | :---: | :---: | :---: |
|  |  | Yes, but not over the past year | 2 |
|  |  | Yes, over the past year | 4 |
| w1q100 | Has a relative or a friend, a doctor or a nurse, or anyone else, been worried about your drug use or said to you that you should stop using drugs? | No | 0 |
|  |  | Yes, but not over the past year | 2 |
|  |  | Yes, over the past year | 4 |

Drug use was re-assessed at waves 2 and 3. Four variables (w2dudit, w3dudit, w2dudit_i, and w3dudit_i) were created using the same approach described above.

The suggested cut-off score for men with drug-related problems is a score of 6 or more, indicating probable drug-related problems, either substance abuse/harmful use or dependence. For women, the cut-off score is 2 or more. For both sexes, it is highly probable that a score of 25 or more indicates dependence on one or more drugs (Berman et al., 2003).

## Stressors.

Felt stigma assessed respondents' awareness and experiences of sexual minority- related stress (Herek, 2008). Scale items (w1q125- w1q127) were "most people where I live think less of a person who is LGB," "most employers where I live will hire openly LGB people if they are qualified for the job," and "most people where I live would not want someone who is openly LGB to take care of their children." Responses were recorded on a 5-point Likert scale ranging from "strongly disagree" to "strongly agree", with the middle category as "Neither agree nor disagree". $1 / 3$ items (w1q126) was reverse coded, then the scale was created as a mean score of each of the items within the scale. Lower values represent less felt stigma, and higher values represent greater felt stigma. Scale values range from 1 to 5 .

There were two resulting variables: "w1feltstigma" (calculated only from complete cases, in which no individual scale items were missing) and "w1feltstigma_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Felt stigma was re-assessed at waves 2 and 3. Four variables (w2feltstigma, $\mathbf{w 3 f e l t s t i g m a , ~ w 2 f e l t s t i g m a \_ i , ~ a n d ~ w 3 f e l t s t i g m a \_ i ) ~ w e r e ~ c r e a t e d ~ u s i n g ~ t h e ~ s a m e ~}$ approach described above.

Internalized homophobia assessed the degree to which respondents accept stigma as a part of their own value systems (Herek et al., 2009). Scale items (wlq128-w1q132) included "I have tried to stop being attracted to people who are the same sex as me," "I wish I weren't LGB," and "I feel that being LGB is a personal shortcoming for me." Responses were recorded on a 5-point Likert scale ranging from "strongly disagree" to "strongly agree." The scale was created as a mean score of each of the items within the scale. Lower values represent less internalized homophobia and higher values represent greater internalized homophobia. Scale values range from 1 to 5 .

There were two resulting variables: "w1internalized" (calculated only from complete cases, in which no individual scale items were missing) and "wlinternalized_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Internalized homophobia was re-assessed at waves 2 and 3. Four variables (w2internalized, w3internalized, w2internalized_i, and w3internalized_i) were created using the same approach described above.

Bisexual stigma assessed the degree to which bisexual-identified respondents were aware of stigma directed towards members of the bisexual community (Bostwick, 2012). Four items (w2q117-w2q120) assessed bisexual stigma consciousness. Respondents were asked to rate their agreement with each of four statements: "I worry that my behaviors will be viewed as stereotypically bisexual," "Stereotypes about bisexuals affect me," "Most lesbians/gays have a problem with bisexuals," and "Most heterosexuals have a problem with bisexuals." Responses were recorded on a 5-point Likert scale ranging from "strongly disagree" to "strongly agree", with the middle category as "Neither agree nor disagree". The scale was created as a mean score of each of the items within the scale. Lower values represent less stigma consciousness and higher values represent greater stigma consciousness. Scale values range from 1 to 5.

There were two resulting variables: "w2bistigma" (calculated only from complete cases, in which no individual scale items were missing) and "w2bistigma_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

A fifth item ( $\mathbf{w} \mathbf{2 q 1 2 1}$ ) assessed perceived contestation of one's bisexual identity: I feel that others view my bisexual identity as "untrue" or not real.

Bisexual stigma was only assessed at wave 2 .
Everyday discrimination assessed chronic, relatively minor experiences of discrimination or unfair treatment (Williams et al., 1997). Scale items (w1q144A- w1q144I) asked respondents who often the following things happened to them over the past year, including "you were treated with less courtesy than other people," "you were treated with less respect than other people," "and you were called names or insulted." Responses were recorded on a 4-point Likert scale ranging from "often" to "never." The scale was created as a mean score of each of the items within the scale. The resulting variable was reversecoded so that lower values represent less everyday discrimination and higher values represent more everyday discrimination. Scale value range from 1 to 4 .

There were two resulting variables: "w1 everyday" (calculated only from complete cases, in which no individual scale items were missing) and "w1everyday_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Everyday discrimination was re-assessed at waves 2 and 3. Four variables (w2everyday, w3everyday, w2everyday_i, and w3everyday_i) were created using the same approach described above.

Chronic strains (Wheaton, 1999, abridged version). Scale items (w1q146A- w1q146L) asked respondents to think about their lives currently, and to determine whether several statements were not true, somewhat true, or very true. A "does not apply" response option was also provided. Questions included "you're trying to take on too many things at once," "your job often leaves you feeling both mentally and physically tired," "and you are alone too much.".

Childhood gender conformity (Zucker et al., 2006). Scale items (w1q147- w1q150) included "as a child, my favorite toys and games were...," and "as a child, the characters on TV or in the movies that I imitated or admired were..." Response were recorded on a 5-point scale, with the wording of response options varying according to the question, but all ranged from "masculine" (e.g., $1=$ "always 'masculine,"" "always boys or men") to "feminine" (e.g., $5=$ "always 'feminine,"" "always girls or women"). "Neither" and "not applicable" responses were set as missing. A preliminary score was assigned to each participant and was calculated the mean score of all the values present within the scale for each individual. A final categorical score was then calculated for each participant, based on their sex at birth (male/female), using cutoff scores described in the table below. The resulting variable for the scale was named "w1childgnc." In addition, an imputed version of the scale was calculated in which missing individual scale items were imputed, and a final scale score was calculated for each respondent in the same manner (w1childgnc_i). The resulting categories of the measure are 1 "Top decile (most GNC)" 2 "Median-Top decile" 3 " $<$ Median (least GNC)".

| Table 8. Cutoff scores used to calculate w1childgnc |  |  |
| :--- | :--- | :--- |
|  | Lower cutoff | Upper cutoff |
| $90^{\text {th }}$ percentile or greater <br> (most gender non- <br> conforming in childhood) | Females: 1.00 <br> Males: 3.66 | Females: 2.00 <br> Males: 5.00 |
| Between $50^{\text {th }}$ percentile and <br> $90^{\text {th }}$ percentile | Females: 2.01 <br> Males: 2.33 | Females: 3.00 <br> Males: 3.65 |
| Less than $50^{\text {th }}$ percentile <br> (least gender non- <br> conforming in childhood) | Females: 3.01 <br> Males: 1.00 | Females: 5.00 <br> Males: 2.32 |

Childhood gender conformity was not re-assessed at waves 2 or 3 .
Adverse childhood experiences (ACE) (CDC-BRFSS, 2010). Scale items (w1q151w1q161) asked respondents to "look back before you were 18 years of age," and included items such as "did you live with anyone who was depressed, mentally ill, or suicidal," and "how often did your parents or adults in your home ever slap, hit, kick, punch, or beat each other up?" Available response options ranged from dichotomous (yes/no) to 3point Likert scales (never to more than once), depending on the question. "Don't
know/not sure" and "refused" answer options were also available to respondents, where appropriate. To create a summary ACE score, all items were dichotomized ( $1=$ yes, event occurred at least once vs. $0=$ no, event never occurred) if not already dichotomized. Per published instruction (CDC, 2016), 8 subscores were created from the existing 11 items: presence of emotional abuse (w1ace_emo: w1q158), physical abuse (w1ace_phy: w1q157), sexual abuse (w1ace_sex: w1q159, w1q160, w1q161), household intimate partner violence (w1ace_ipv: w1q156), household substance use (w1ace_sub: w1q152, w1q153), household mental illness (w1ace_men: w1q151), parental separation or divorce (w1ace_sep: w1q155), incarcerated household member (w1ace_inc: wlq154). A resulting final score was created as a sum score indicating the number of adverse childhood experiences respondents reported during childhood. Scale values for the resulting ACE measure (w1ace) range from 0 to 8 . Respondents indicating "don't know" or "refused" on any single scale item were recorded as missing for that subscore(s), and the subsequent final score.

Missing individual scale items were also imputed using predictive mean matching, and individual subscores and the final scale score was calculated for each respondent (w1ace, w1ace_emo_i, w1ace_phy_i, w1ace_sex_i, w1ace_ipv_i, w1ace_sub_i, w1ace_men_i, w1ace_sep_i, w1ace_inc_i).

Adverse childhood experiences were not re-assessed at waves 2 or 3 .

## Social support.

Multidimensional scale of perceived social support (Zimet et al., 1988) includes scale items (wlq164a- wlq164l) that asked respondents to rate their levels of agreement with several items, including "there is a special person who is around when I am in need," and "my family really tries to help me." Responses were recorded on a 7-point Likert scale ranging from "very strongly disagree" to "very strongly agree"", with the middle category as "Neither agree nor disagree". The scale was created as a mean score of each of the items within the scale. Lower values represent less perceived social support and higher values represent more perceived social support. Scale values range from 1 to 7 .

There were two resulting variables: "w1socsupport" (calculated only from complete cases, in which no individual scale items were missing) and "w1socsupport_i" (missing individual scale items were imputed, and a final scale score was calculated for each respondent).

Additionally, 3 subscales were created, representing perceived social support from significant others (w1socsupport_so and w1socsupport_so_i, w1q164a, b, e, j), family (w1socsupport_fam and w1socsupport_fam _i, w1q164c, d, h, k), and friends (w1socsupport_fr and w1socsupport_fr_i, w1q164f, g, i, l). Each subscale was similarly created as a mean score of each of the items within the subscale. Lower values represent less perceived social support and higher values represent more perceived social support. Subscale values range from 1 to 7 .

Social support was re-assessed at wave 2. Eight variables (w2socsupport, w2socsupport _i, w2socsupport_so, w2socsupport_so_i, w2socsupport_fam, w2socsupport_fam_i, w2socsupport_fr, w2socsupport_fr_i) were created using the same approach described above for wave 2, and eight (w3socsupport, w3socsupport _i, w3socsupport_so, w3socsupport_so_i, w3socsupport_fam, w3socsupport_fam_i, w3socsupport_fr, w3socsupport_fr_i) were created using the same approach for wave 3 .

## Social support matrix questions

Social support matrix questions were part of the wave 2 Generations questionnaire (w2q156-161). Respondents were asked to denote the total number of people they could rely on for everyday (w2q156) and major (w2q159) social support. After that, respondents were asked to indicate how many of these people were (w2q 157/160a) their family (other than spouse); (w2q157/160b) their spouse; their close friends (w2q157/160c); their friends/acquaintances(w2q157/160d); Volunteer/paid worker(w2q157/160e); or Other(w2q157/160f). Lastly, they were asked to indicate how many of the people they could rely on for everyday/major social support were of the same race/ethnicity as them(w2q158/161a); Of the same gender as them(w2q158/161b); LGBT(w2q158/161c); Of the same race/ethnicity and gender as them, and LGBT(w2q158/161d).

## Response pattern inconsistencies

Respondents sometimes displayed on or several of four types of response pattern inconsistencies when filling in the social support matrix questions:

- Pattern 1: Occasional missing responses. Some respondents filled in the total size of their everyday or major social support network and filled one or more of the subsequent subcategories, but also left some of these subcategories blank.
- Pattern 2: The size of the total support network filled in questions $156 / 159$ did not equal the sum of subcategories provided in questions 157/160.
- Pattern 3: The total size of the social support network filled in questions 156/159 was smaller than one or more of the entries for subparts of those networks that were homophilous to the focal respondents in terms of race/ethnicity, gender, and/or were LGBT.
- Pattern 4: The number of persons in their support networks homophilous to them in both race/ethnicity and gender who were also LGBT, was larger than one or more of the subparts of social support networks fulfilling only one of these criteria.


## Handling response pattern inconsistencies

The Generations research team identified two strategies for dealing with these response pattern inconsistencies.
Strategy 1:

- For pattern 1: Replace occasional missings with 0 's.
- For patterns 2-4: Leave the data as is, accepting there is measurement error in the data.


## Strategy 2:

Set some of the inconsistent response patterns to missing, use imputation to fill them in.

- Pattern 1: Replace occasional missings with 0's
- Pattern 2: Set both total network size (w2q156/159) and all subcategories (w2q157/160) to missing
- Pattern 3: Set homophilous network category exceeding total (w2q158*/161*) to missing
- Pattern 4: Set multidimensionally homophilous response (w2q158d/161d) to missing


## Missing Data and Imputation

## Baseline survey

When possible, missing values on demographic characteristics were assigned from other known sources. (See Appendices 5, 6, \& 7 for missing values in the baseline, wave 2, and wave 3 datasets, respectively).

- 19 respondents were missing an age on the Generations survey (wlage). All 19 were assigned the age reported to Gallup on the Gallup survey.
- 18 respondents were missing a race on the Generations survey (wlrace). All 18 were assigned the race reported on the Gallup screen.
- 22 respondents were missing a sex at birth on the Generations survey (w1sex). All 22 were assigned the sex at birth reported to Gallup on the Gallup survey.
- 13 respondents were missing a sexual identity on the Generations survey (w1sexualid). All 13 were assigned the sexual identity reported on the Gallup screen.
- 15 respondents were missing a current gender identity on the Generations survey (wlgender). Of them, 10 could be assigned using the gender reported on the Gallup screen. The remaining 5 were assigned the gender that corresponded to their sex at birth (e.g., "male" sex at birth was coded as "man" gender identity).
- 39 respondents were missing a household income. Of them, 23 could be assigned the household income reported to Gallup on the Gallup survey.

For the remaining missing values, we did a single imputation by chained equations (fully conditional specification), using predictive mean matching (Little, 1988) to draw the imputed values. With predictive mean matching, regression is used to predict the missing value, and then a single value is randomly selected from
the k observed values nearest to the predicted missing value from a donor pool of complete observations. We used donor pools of size $\mathrm{k}=5$ according to Heitjan and Little (1991). When doing imputation by chained equations, each of the imputed variables serve as predictors in the imputation regression models for all other imputed variables.
Additionally, age, race/ethnicity, and sex at birth, completed through other sources, were included in the imputation models to improve matching.

Predictive mean matching can be considered a more general form of hot-deck imputation, in which missing values are imputed by matching non-respondents to respondents only
through categorical predictors. These matching-imputation methods are attractive because they recreate distributions well by using observed values for imputations and because they are somewhat more robust to misspecification of the imputation model (e.g. normality assumption violation) than parametric imputation methods (Morris et al., 2014). For each of the variables that were imputed, both the original/un-imputed and imputed versions are available in the dataset.

- The remaining 16 (out of 39) respondents with a missing household income were imputed using Predictive Mean Matching.
- 41 respondents were missing a personal income. All 41 were imputed using Predictive Mean Matching.


## Wave 2 survey

- 5 respondents were missing a sexual identity on the Generations survey (w2sexualid). All 5 were assigned the sexual identity reported on the Gallup screen.
- 7 respondents were missing a current gender identity on the Generations survey (w2gender). All 7 were assigned a gender consistent with the gender reported at wave 1.

Wave 3 survey

- 12 respondents were missing a sexual identity on the Generations survey (w3sexualid). All 12 were assigned the sexual identity reported on the Gallup screen.
- 12 respondents were missing a current gender identity on the Generations survey (w3gender). All 12 were assigned a gender consistent with the gender reported at wave 1.

Missing in imputed scales in Wave 2 and Wave 3 reflect attrition from the baseline (attrition from Wave 1 to Wave $2 n=437$; attrition from Wave 1 to Wave $3 n=624$ ) and those who were in the extended sample $(\mathrm{n}=187)$ who were not given the follow up surveys Wave 2 and Wave 3.

## Sample weight

Final sample weights are available for use with the data. When applied, results from analyses are generalizable to the U.S. population of LGB adults ages 18-25, 34-41, and 52-59 during data collection. The sample weights are (see also Table 9):

1. w1weight_full to be used for analyses using the full sample (original plus extended sample).
2. w1weight_orig to be used for analyses using the original sample only.
3. w2weight to be used for analyses using Wave 2 survey (including longitudinal analyses of Wave 1 and Wave 2 respondents).
4. w3weight to be used for analyses using Wave 3 survey (Including longitudinal analyses of Wave 1, Wave 2, and Wave 3 respondents).

Table 9. Use of sample weights

| For analyses of: | Use this weight: |
| :--- | :--- |
| Cross-sectional analysis using Wave 1 data for the <br> original sample (excluding the enhancement sample) | w1weight_orig |
| Cross-sectional analysis using Wave 1 data for the <br> full sample (original and enhancement samples) | w1weight_full |
| Cross-sectional analysis using Wave 2 data | w2weight |
| Cross-sectional analysis using Wave 3 data | w3weight |
| Longitudinal analysis using both Wave 1 and Wave 2 <br> data | w2weight |
| Longitudinal analysis using Wave 1, wave 2, and <br> wave 3 data | w3weight |

STATA
In Stata, the sample weight can be applied to analyses using the "svy" command.

For example, if the procedure is a generalized linear model, use the same procedure as you would when analyzing non-complex survey data, but include the prefix svy: regress $x$ y z.

To register the survey design of the data for analysis, use the following command:

```
svyset _n [pweight=(weight variable name)]
```

Copy the code above but replace "weight variable name" with the weight variable of the dataset you are using.

## SPSS

In SPSS, first a Complex Samples Module is needed, this is not included with the base SPSS package. From there, create an "Analysis Plan" which contains survey design variable information and identifies the sampling weight. When running an analysis procedure, procedures that are found in the Complex Sample modules must be used and these are accessed through a link to the Analysis Plan that the analyst must create.

For example, if the procedure generalized linear model (GLM) is used to run a regression with data, with complex survey data, the analyst needs to create the Analysis Plan file and then use complex sample generalized linear model (CSGLM) to run the regression. CSGLM uses a syntax different from GLM.

The steps to analysis survey data in SPSS:

1. Complex Samples Module is needed
2. Create an Analysis Plan file using the code below:

## CSPLAN ANALYSIS

/PLAN FILE='myplanfile.csaplan' /PLANVARS ANALYSISWEIGHT=weight variable name /DESIGN

## /ESTIMATOR TYPE=WR.

Copy the code above, and replace'myplanfile.csaplan' with file name that makes sense for your project. Keep the .csaplan extension. Replace "weight variable name" with the weight variable in the dataset.
3. Use Complex Samples procedures to analyze the data

Point-and-click is another method to create the Analysis Plan file. To find step-by-step instructions on this approach, please see Appendix 8.

## Base Weights:

The base weights for this study were calculated for the Daily Tracking Frame for the timeframe included in this study in multiple stages. The entire frame, selected as an RDD sample, was initially weighted to represent aged $18+$ US population. The weighting process accounted for multiple stages of selection and non-response.

## Non-Response Stage 1:

The first stage of non-response accounted for respondents agreeing to be re- contacted by Gallup for follow-up studies. Non-response adjustment cells were created based on demographic characteristics defined as Hispanic x Region x Age x Gender x Education. For nonresponse adjustments, the inverse of weighted response rates (weighted by base weight) for each cell was used as the non- response adjustment factor.

## Non-Response Stage 2:

The second stage of non-response accounted for respondents who were deemed eligible for the LGB study agreeing to be re-contacted for this study. Non-response adjustment cells were created based on demographic characteristics defined as Age x Gender x Region x Education. For nonresponse adjustments, the inverse of weighted response rates (weighted by cumulative weight) for each cell was used as the non-response adjustment factor. All respondents who agreed to participate in the study at this stage were sampled so every eligible person had an equal selection probability.

## Non-Response Stage 3:

The third and final stage of non-response accounted for respondents who were sampled and did not complete the survey. Non-response adjustment cells were created based on demographic characteristics defined as Age x Gender x Region x Education. For nonresponse adjustments, the inverse of weighted response rates (weighted by cumulative weight) for each cell was used as the non-response adjustment factor.

## Post Stratification Adjustment:

The final step was a post-stratification adjustment to targets for the LGBT community obtained from weighted estimates using the Gallup Daily Tracking surveys. NonResponse Adjusted Weights were post-stratified to targets for LGBT population were created for age, gender, education, race/ethnicity and region.

## Attrition Analysis

Attrition analysis using weighted data was performed to evaluate the extent of similarities between wave 1 population and wave 2 population, as well as, between wave 1 population and wave 3 population (Table 9). The original sample was used for the attrition analysis $(\mathrm{n}=1,331)$ since the extended sample was not included in waves 2 and 3 .

Wave 1 to Wave 2
There were some expected differences seen between those who were retained versus those who were loss to follow up for the age cohorts, specifically the younger cohort were more likely to have loss to follow up from wave 1 to wave 2 . Generally, this is a trend is observed in longitudinal studies in that younger respondents are generally more likely to have loss to follow up between subsequent waves. In addition, some differences were seen with race, specifically, Blacks and Latinos were more likely to have loss to follow up from wave 1 to wave 2. For education, respondents with a high school education or less were more likely to have loss to follow up from wave 1 to wave 2 . Among the general health categories, ranging from poor to excellent, those with fair health were more likely to have loss to follow up from wave 1 to wave 2 .

Wave 1 to Wave 3
Similarly, the attrition analysis between wave 1 and wave 3 indicated that the younger cohort, Blacks and Latinos, and respondents with a high school degree or less were more likely to have loss to follow up. Additionally, respondents who lived 60 miles or more from the nearest LGB health center were more likely to have loss to follow up from wave 1 to wave 3 .

Table 10: Attrition Analysis by select demographic characteristics, stressors, and health outcomes: Generations national probability original sample respondents ( $n=1,331$ )

| Wave 1 to | Wave 1 to |
| :---: | :---: |
| Wave 2 | Wave 2 |
| Respondents | Respondents |
| Retained |  |
| $(\mathrm{n}=894)$ | Loss to <br> Follow-Up <br> $(\mathrm{n}=437)$ |
| $\mathrm{n}(\%)$ or mean <br> $( \pm \mathrm{dd})$ | $\mathrm{n}(\%)$ or <br> mean $( \pm \mathrm{sd})$ |


| Wave 1 to | Wave 1 to |
| :---: | :---: |
| Wave 3 | Wave 3 |
| Respondents | Respondents |
| Retained | Loss to |
| $(\mathrm{n}=707)$ | Follow-Up |
|  | $(\mathrm{n}=624)$ |

$p$-value
n (\%) or mean n (\%) or mean $p$-value

## Demographics

| Cohort |  |  | $0.019^{*}$ |  | $<0.001^{*}$ |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Younger | $367(57.7)$ | $203(65.8)$ |  | $276(55.7)$ | $294(65.0)$ |  |
| Middle | $211(22.1)$ | $106(19.7)$ |  | $157(21)$ | $160(21.4)$ |  |
| Older | $316(20.2)$ | $128(14.5)$ |  | $274(23.3)$ | $170(13.6)$ | 0.069 |
| Gender |  |  | 0.34 |  | $323(57.7)$ |  |
| Female | $427(52.4)$ | $225(57.7)$ |  | $329(50.4)$ | $261(34.5$ |  |
| Male | $409(39.5)$ | $187(35.6)$ |  | $335(42.3)$ | $40(7.78)$ |  |
| Nonbinary or | $58(8.1)$ | $25(6.7)$ |  | $43(7.36)$ |  |  |

genderqueer

| Race |  |  | 0.018* |  |  | 0.038* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 684 (66.8) | 297 (57.4) |  | 551 (68.1) | 430 (59.3) |  |
| Black or African |  |  |  |  |  |  |
| American | 86 (13.3) | 67 (20.2) |  | 70 (14.3) | 83 (17.2) |  |
| Latino or Hispanic | 124 (19.9) | 73 (22.3) |  | 86 (17.6) | $111(23,5)$ |  |
| Education |  |  | 0.03* |  |  | 0.002* |
| High school or less | 157 (37.7) | 103 (45.9) |  | i 110 (34.7) | 150 (46.0) |  |
| More than high school | 737 (62.3) | 334 (54.1) |  | 597 (65.3) | 474 (54.0) |  |
| Employment |  |  | 0.225 |  |  | 0.656 |
| Unemployed | 43 (7.34) | 25 (7.72) |  | 34 (7.26) | 34 (7.67) |  |
| Sexual orientation |  |  | 0.297 |  |  | 0.39 |
| Lesbian or gay | 492 (46.45) | 247 (49.46) |  | 412 (48.86) | 327 (46.42) |  |
| Bisexual | 285 (39.57) | 143 (38.74) |  | 205 (36.12) | 223 (41.99) |  |
| Queer | 59 (6.43) | 19 (4.55) |  | 44 (6.54) | 34 (5.05) |  |
| Pansexual | 21 (2.86) | 11 (2.67) |  | 19 (3.57) | 13 (2.12) |  |
| Same-gender loving | 14 (1.06) | 8 (1.73) |  | 9 (1.02) | 13 (1.56) |  |
| Asexual | 16 (2.41) | 3 (0.81) |  | 12 (2.33 | 7 (1.38) |  |
| Straight/ |  |  |  |  |  |  |
| Heterosexual | 4 (0.77) | 4 (1.93) |  | 4 (1.05) | 4 (1.32) |  |
| Anti-label | 3 (0.45) | 1 (0.06) |  | $2(0.52)$ | 2 (0.12) |  |
| Other | 0 (0.00) | 1 (0.06) |  | 0 (0.00) | 1 (0.04) |  |
| Marital status |  |  | 0.553 |  |  | 0.32 |
| Legally married, civil union, domestic partner | 201 (16.1) | 91 (14.8) |  | 163 (16.8) | 129 (14.6) |  |
| Unmarried | 691 (83.9) | 346 (85.2) |  | 543 (83.2) | 494 (85.4) |  |
| Born in United States |  |  | 0.876 |  |  | 0.894 |
| Yes | 836 (95.2) | 405 (95.4) |  | 667 (95.3) | 574 (95.2) |  |
| No | 47 (4.83) | 26 (4.61) |  | 34 (4.65) | 39 (4.83) |  |
| Political affiliation |  |  | 0.582 |  |  | 0.225 |
| Republican | 40 (5.46) | 19 (6.19) |  | 34 (5.92) | 25 (5.55) |  |
| Democrat | 522 (58.9) | 237 (54.9) |  | 416 (60.5) | 343 (54.7) |  |
| Independent | 254 (35.6) | 129 (38.9) |  | 196 (33.6) | 187 (39.7) |  |
| LGB Center Access |  |  | 0.536 |  |  | 0.028 |
| Reside 60+ miles |  |  |  |  |  |  |
| from LGBT center | 229 (26.2) | 113 (28.2) |  | 169 (23.3) | 173 (30.0) |  |
| Reside less than 60 miles from LGBT center | 657 (73.8) | 316 (71.8) |  | 532 (76.7) | 441 (70.0) |  |
| Identity |  |  |  |  |  |  |
| Community |  |  |  |  |  |  |
| Connectedness | 3.0 ( $\pm .57)$ | 3.0 ( $\pm .57)$ | 0.385 | 2.9 ( $\pm .59)$ | 3.0 ( $\pm .54)$ | 0.227 |
| Stressor |  |  |  |  |  |  |
| Internalized | 1.6 ( $\pm .77)$ | 1.7 ( $\pm .74)$ | 0.615 | 1.6 ( $\pm .80)$ | 1.7 ( $\pm .72)$ | 0.656 |


| Homophobia <br> Health Outcome <br> General Health |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Poor | $37(4.15)$ | $10(1.73$ | $0.032^{*}$ |  |
| Fair | $108(13.5)$ | $66(19.8)$ | $23(2.85)$ | $24(3.62)$ |
| Good | $293(35.5)$ | $128(30.6)$ | $76(12.7)$ | $98(18.6)$ |
| Very good | $332(35.8)$ | $174(34.4)$ | $222(34.0)$ | $199(33.4)$ |
| Excellent | $111(11)$ | $55(13.5)$ | $284(37.7$ | $222(33.2)$ |
| $* p<.05$ |  |  | $96(12.8)$ | $70(11.2)$ |

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## Appendices

## Appendix 1: Information Sheet ${ }^{4}$

## Identity Stress and Health in Three Cohorts of LGB individuals Consent Information Sheet Generations Study

The Generations survey is the first long-term, five-year study to examine the health and wellbeing of lesbians, gay men, and bisexuals (LGB) across three generations. The survey explores identity, stress, health outcomes, and health care among LGBs from different age groups.

You were selected as a participant in this survey because you are 18 years or older and because you recently told Gallup you were willing to participate in this study. Your participation in this research survey is completely voluntary and you can skip any question you do not want to answer. Your participation in this survey is completely anonymous.

The information you provide will be kept confidential and will be kept separate from your identifying information including your name, email address, or home address. Information will only be reported in the aggregate.

Information about you is protected by a federal Certificate of Confidentiality. This means that we can't be forced to release information about you for any legal proceeding, even if a court of law asks.

The Certificate allows us to use information about you for purposes of this research, or to disclose it for other research when allowed by law. The Certificate requires other researchers to also protect information we share with them.

There are limits to this protection. The Certificate does not protect your information when:

- You or your family voluntarily release information about yourselves.
- You consent to release of information (for example, the uses described in this form or if you sign release forms for employment, insurance or medical care).
- A federal agency audits or evaluates research that it funds.

As a token of our appreciation you will receive $\$ 25$ for your participation in this survey.
If you have any questions about this research, may contact the survey's primary investigator, Dr. Ilan Meyer at meyer@law.ucla.edu, call (310) 825-7270, or write to him at The Williams Institute UCLA School of Law, Box 951476, Los Angeles, CA 90095.

## UCLA Office of the Human Research Protection Program (OHRPP):

If you have questions about your rights as a research subject, or you have concerns or suggestions

[^3]and you want to talk to someone other than the researchers, you may contact the UCLA OHRPP by phone: (310) 206-2040; by email: participants@research.ucla.edu or by mail: Box 951406, Los Angeles, CA 90095-1406.

Appendix 2: Wave 1 Scale reliability (Cronbach's a) by total sample, sex at birth, cohort, race/ethnicity

| Scale | Total Sample | Sex at Birth |  | Cohort |  |  | Race/Ethnicity |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Female | Male | Younger | Middle | Older | White | Black/ <br> African American | Latino/ Hispanic |
| Multi-Group Ethnic Identity | 0.86 | 0.86 | 0.86 | 0.87 | 0.85 | 0.83 | 0.82 | 0.83 | 0.88 |
| Sexual Identity Centrality | 0.81 | 0.83 | 0.80 | 0.80 | 0.80 | 0.84 | 0.84 | 0.74 | 0.75 |
| Community Connectedness | 0.86 | 0.87 | 0.86 | 0.85 | 0.86 | 0.87 | 0.86 | 0.85 | 0.86 |
| Healthcare Stereotype Threat | 0.90 | 0.89 | 0.91 | 0.90 | 0.90 | 0.91 | 0.91 | 0.90 | 0.89 |
| Mental Disability | 0.89 | 0.89 | 0.88 | 0.86 | 0.87 | 0.89 | 0.89 | 0.88 | 0.89 |
| Alcohol Use | 0.67 | 0.65 | 0.69 | 0.70 | 0.66 | 0.68 | 0.66 | 0.75 | 0.69 |
| Drug Use | 0.85 | 0.85 | 0.85 | 0.85 | 0.87 | 0.81 | 0.84 | 0.86 | 0.86 |
| Felt Stigma | 0.70 | 0.69 | 0.71 | 0.71 | 0.73 | 0.67 | 0.74 | 0.63 | 0.63 |
| Internalized Homophobia | 0.75 | 0.73 | 0.76 | 0.76 | 0.76 | 0.73 | 0.74 | 0.77 | 0.75 |
| Everyday Discrimination | 0.91 | 0.91 | 0.91 | 0.90 | 0.91 | 0.90 | 0.90 | 0.91 | 0.90 |
| Childhood Gender Conformity | 0.75 | 0.75 | 0.71 | 0.75 | 0.78 | 0.71 | 0.72 | 0.81 | 0.76 |
| Adverse Childhood Experiences | 0.77 | 0.79 | 0.74 | 0.76 | 0.81 | 0.75 | 0.77 | 0.76 | 0.75 |
| Social Support | 0.93 | 0.92 | 0.93 | 0.91 | 0.93 | 0.94 | 0.93 | 0.92 | 0.92 |
| Social Well-Being | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.83 | 0.83 | 0.77 | 0.78 |
| Satisfaction with Life | 0.91 | 0.90 | 0.91 | 0.88 | 0.91 | 0.92 | 0.91 | 0.88 | 0.88 |

Appendix 3: Wave 2 Scale reliability (Cronbach's a) by total sample, sex at birth, cohort, race/ethnicity

| Scale | Total Sample | Sex at Birth |  | Cohort |  |  | Race/Ethnicity |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Female | Male | Younger | Middle | Older | White | Black/ <br> African <br> American | Latino/ Hispanic |
| Sexual Identity Centrality | 0.85 | 0.86 | 0.85 | 0.88 | 0.81 | 0.84 | 0.87 | 0.77 | 0.81 |
| Community Connectedness | 0.86 | 0.85 | 0.86 | 0.86 | 0.84 | 0.87 | 0.86 | 0.85 | 0.85 |
| Mental Disability | 0.89 | 0.89 | 0.87 | 0.86 | 0.89 | 0.87 | 0.89 | 0.88 | 0.88 |
| Alcohol Use | 0.71 | 0.71 | 0.71 | 0.68 | 0.74 | 0.72 | 0.72 | 0.76 | 0.60 |
| Drug Use | 0.86 | 0.87 | 0.86 | 0.87 | 0.90 | 0.82 | 0.87 | 0.82 | 0.87 |
| Felt Stigma | 0.74 | 0.74 | 0.73 | 0.73 | 0.75 | 0.73 | 0.74 | 0.74 | 0.71 |
| Internalized Homophobia | 0.78 | 0.77 | 0.79 | 0.78 | 0.77 | 0.79 | 0.77 | 0.80 | 0.77 |
| Bisexual Stigma Consciousness (among bisexual respondents) | 0.77 | 0.78 | 0.73 | 0.79 | 0.72 | 0.81 | 0.79 | 0.71 | 0.73 |
| Everyday Discrimination | 0.91 | 0.90 | 0.91 | 0.90 | 0.92 | 0.89 | 0.90 | 0.91 | 0.92 |
| Social Support | 0.91 | 0.91 | 0.91 | 0.90 | 0.93 | 0.91 | 0.92 | 0.91 | 0.87 |
| Social Well-Being | 0.81 | 0.80 | 0.81 | 0.77 | 0.82 | 0.83 | 0.81 | 0.74 | 0.82 |

Appendix 4: Wave 3 Scale reliability (Cronbach's a) by total sample, sex at birth, cohort, race/ethnicity

| Scale | Total Sample |  | Sex at Birth |  | Cohort |  |  | Race/Ethnicity |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Female | Male | Younger | Middle | Older | White <br> Black/ <br> African <br> American | Latino/ <br> Hispanic |  |
| Sexual Identity Centrality | 0.85 | 0.84 | 0.86 | 0.87 | 0.84 | 0.84 | 0.87 | 0.72 | 0.79 |
| Community Connectedness | 0.87 | 0.86 | 0.87 | 0.86 | 0.84 | 0.88 | 0.87 | 0.81 | 0.84 |
| Mental Disability | 0.89 | 0.89 | 0.88 | 0.88 | 0.87 | 0.88 | 0.89 | 0.90 | 0.85 |
| Alcohol Use | 0.63 | 0.60 | 0.66 | 0.68 | 0.63 | 0.59 | 0.65 | 0.55 | 0.55 |
| Drug Use | 0.88 | 0.88 | 0.88 | 0.90 | 0.88 | 0.82 | 0.88 | 0.89 | 0.89 |
| Felt Stigma | 0.78 | 0.78 | 0.77 | 0.79 | 0.80 | 0.74 | 0.80 | 0.72 | 0.65 |
| Internalized Homophobia | 0.76 | 0.75 | 0.76 | 0.73 | 0.73 | 0.80 | 0.76 | 0.75 | 0.74 |
| Everyday Discrimination | 0.91 | 0.91 | 0.91 | 0.91 | 0.92 | 0.88 | 0.90 | 0.91 | 0.93 |
| Social Support | 0.92 | 0.91 | 0.93 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.89 |
| Social Well-Being | 0.83 | 0.83 | 0.82 | 0.81 | 0.80 | 0.86 | 0.84 | 0.82 | 0.72 |

Appendix 5: Missing values for each variable in Wave 1 dataset.

| Variable | Missing | Total | Percent <br> Missing |
| :---: | :---: | :---: | :---: |
| studyid | 0 | 1,518 | 0 |
| w1weight_f $\sim 1$ | 0 | 1,518 | 0 |
| w1weight_o $\sim$ g | 187 | 1,518 | 12.32 |
| w1survey yr | 0 | 1,518 | 0 |
| cohort | 0 | 1,518 | 0 |
| geduc 1 | 0 | 1,518 | 0 |
| geduc2 | 0 | 1,518 | 0 |
| geducation | 0 | 1,518 | 0 |
| gemploy 2010 | 64 | 1,518 | 4.22 |
| gmethod type | 0 | 1,518 | 0 |
| gmsaname | 0 | 1,518 | 0 |
| gp1 | 98 | 1,518 | 6.46 |
| gruca | 22 | 1,518 | 1.45 |
| gruca_i | 0 | 1,518 | 0 |
| gurban | 22 | 1,518 | 1.45 |
| gurban_i | 0 | 1,518 | 0 |
| gzipcode | 14 | 1,518 | 0.92 |
| gzipstate | 0 | 1,518 | 0 |
| gcendiv | 0 | 1,518 | 0 |
| gcenreg | 0 | 1,518 | 0 |
| gmilesaway | 18 | 1,518 | 1.19 |
| gmilesaway2 | 18 | 1,518 | 1.19 |
| w1q01 | 16 | 1,518 | 1.05 |
| w1q02 | 60 | 1,518 | 3.95 |
| w1q03 | 48 | 1,518 | 3.16 |
| w1q04 | 13 | 1,518 | 0.86 |
| w1q05 | 13 | 1,518 | 0.86 |
| w1q06 | 14 | 1,518 | 0.92 |
| w1q07 | 15 | 1,518 | 0.99 |
| w1q08 | 19 | 1,518 | 1.25 |
| w1q09 | 17 | 1,518 | 1.12 |
| w1q10 | 17 | 1,518 | 1.12 |
| w1q11 | 14 | 1,518 | 0.92 |
| w1q12 | 17 | 1,518 | 1.12 |
| w1q13 | 17 | 1,518 | 1.12 |
| w1q14 | 21 | 1,518 | 1.38 |
| w1q15 | 18 | 1,518 | 1.19 |


| w1q16 | 16 | 1,518 | 1.05 |
| :---: | :---: | :---: | :---: |
| w1q17 | 18 | 1,518 | 1.19 |
| w1q18 | 22 | 1,518 | 1.45 |
| w1q190 | 15 | 1,518 | 0.99 |
| w1q19a | 18 | 1,518 | 1.19 |
| w1q19b | 19 | 1,518 | 1.25 |
| w1q19c | 30 | 1,518 | 1.98 |
| w1q19d | 24 | 1,518 | 1.58 |
| w1q20_1 | 1,482 | 1,518 | 97.63 |
| w1q20_2 | 1,262 | 1,518 | 83.14 |
| w1q20 3 | 1,238 | 1,518 | 81.55 |
| w1q20 4 | 1,504 | 1,518 | 99.08 |
| w1q20_5 | 1,509 | 1,518 | 99.41 |
| w1q20_6 | 393 | 1,518 | 25.89 |
| w1q20_7 | 1,466 | 1,518 | 96.57 |
| w1q20_t_verb | 0 | 1,518 | 0 |
| w1q21 | 15 | 1,518 | 0.99 |
| w1q22 | 19 | 1,518 | 1.25 |
| w1q23 | 19 | 1,518 | 1.25 |
| w1q24 | 22 | 1,518 | 1.45 |
| w1q25 | 18 | 1,518 | 1.19 |
| w1q26 | 18 | 1,518 | 1.19 |
| w1q27 | 22 | 1,518 | 1.45 |
| w1q28 | 15 | 1,518 | 0.99 |
| w1q29 | 13 | 1,518 | 0.86 |
| w1q29_t_verb | 0 | 1,518 | 0 |
| w1q30_1 | 848 | 1,518 | 55.86 |
| w1q30_2 | 508 | 1,518 | 33.47 |
| w1q30_3 | 1,474 | 1,518 | 97.1 |
| w1q30 4 | 1,469 | 1,518 | 96.77 |
| w1q30 5 | 1,361 | 1,518 | 89.66 |
| w1q31a | 28 | 1,518 | 1.84 |
| w1q31b | 23 | 1,518 | 1.52 |
| w1q31c | 47 | 1,518 | 3.1 |
| w1q31d | 43 | 1,518 | 2.83 |
| w1q32 | 19 | 1,518 | 1.25 |
| w1q33 | 601 | 1,518 | 39.59 |
| w1q34 | 595 | 1,518 | 39.2 |
| w1q35 | 597 | 1,518 | 39.33 |
| w1q36 | 596 | 1,518 | 39.26 |
| w1q37 | 13 | 1,518 | 0.86 |


| w1q38 | 11 | 1,518 | 0.72 |
| :--- | ---: | ---: | ---: |
| w1q39_1 | 1,367 | 1,518 | 90.05 |
| w1q39_2 | 1,388 | 1,518 | 91.44 |
| w1q39_3 | 1,374 | 1,518 | 90.51 |
| w1q39_4 | 1,370 | 1,518 | 90.25 |
| w1q39_5 | 1,402 | 1,518 | 92.36 |
| w1q39_6 | 1,440 | 1,518 | 94.86 |
| w1q39_7 | 1,462 | 1,518 | 96.31 |
| w1q39_8 | 1,300 | 1,518 | 85.64 |
| w1q39_9 | 1,307 | 1,518 | 86.1 |
| w1q39_10 | 1,149 | 1,518 | 75.69 |
| w1q39_11 | 979 | 1,518 | 64.49 |
| w1q39_12 | 1,456 | 1,518 | 95.92 |
| w1q40 | 15 | 1,518 | 0.99 |
| w1q41 | 15 | 1,518 | 0.99 |
| w1q42 | 12 | 1,518 | 0.79 |
| w1q43 | 17 | 1,518 | 1.12 |
| w1q44 | 14 | 1,518 | 0.92 |
| w1q45 | 71 | 1,518 | 4.68 |
| w1q46 | 206 | 1,518 | 13.57 |
| w1q47 | 346 | 1,518 | 22.79 |
| w1q48 | 71 | 1,518 | 4.68 |
| w1q49 | 119 | 1,518 | 7.84 |
| w1q50 | 277 | 1,518 | 18.25 |
| w1q51 | 711 | 1,518 | 46.84 |
| w1q52 | 23 | 1,518 | 1.52 |
| w1q53 | 14 | 1,518 | 0.92 |
| w1q54 | 30 | 1,518 | 1.98 |
| w1q55 | 20 | 1,518 | 1.32 |
| w1q56 | 20 | 1,518 | 1.32 |
| w1q57 | 22 | 1,518 | 1.45 |
| w1q58 | 18 | 1,518 | 1.19 |
| w1q59 | 15 | 1,518 | 0.99 |
| w1q60 | 21 | 1,518 | 0.99 |
| w1q61 | 1,518 | 93.35 |  |
| w1q62 | 1,518 | 74.51 |  |
| w1q63 | 1,518 | 1.38 |  |
| w1q64_1 | 1,518 | 1.32 |  |
| w1q64_2 | 1,518 | 1.25 |  |
| w1q64_3 | 92.03 |  |  |
| w1q64_4 | 1,518 | 64.69 |  |


| w1q64_5 | 1,507 | 1,518 | 99.28 |
| :---: | :---: | :---: | :---: |
| w1q64_6 | 1,429 | 1,518 | 94.14 |
| w1q64_7 | 1,471 | 1,518 | 96.9 |
| w1q64_8 | 1,447 | 1,518 | 95.32 |
| w1q64_9 | 1,326 | 1,518 | 87.35 |
| w1q64_10 | 1,494 | 1,518 | 98.42 |
| w1q64_11 | 1,498 | 1,518 | 98.68 |
| w1q64_12 | 1,518 | 1,518 | 100 |
| w1q64_13 | 1,473 | 1,518 | 97.04 |
| w1q64_t_verb | 0 | 1,518 | 0 |
| w1q65 | 24 | 1,518 | 1.58 |
| w1q66_1 | 1,021 | 1,518 | 67.26 |
| w1q66_2 | 682 | 1,518 | 44.93 |
| w1q66_3 | 1,333 | 1,518 | 87.81 |
| w1q66_4 | 1,426 | 1,518 | 93.94 |
| w1q66_5 | 1,452 | 1,518 | 95.65 |
| w1q67 | 29 | 1,518 | 1.91 |
| w1q68_1 | 1,125 | 1,518 | 74.11 |
| w1q68 2 | 1,348 | 1,518 | 88.8 |
| w1q68_3 | 444 | 1,518 | 29.25 |
| w1q69 | 21 | 1,518 | 1.38 |
| w1q70 | 20 | 1,518 | 1.32 |
| w1q71 | 185 | 1,518 | 12.19 |
| w1q72 | 123 | 1,518 | 8.1 |
| w1q73 | 171 | 1,518 | 11.26 |
| w1q74_1 | 1,184 | 1,518 | 78 |
| w1q74_2 | 1,219 | 1,518 | 80.3 |
| w1q74_3 | 1,448 | 1,518 | 95.39 |
| w1q74_4 | 1,511 | 1,518 | 99.54 |
| w1q74 5 | 1,504 | 1,518 | 99.08 |
| w1q74 6 | 1,504 | 1,518 | 99.08 |
| w1q74_7 | 1,509 | 1,518 | 99.41 |
| w1q74_8 | 1,257 | 1,518 | 82.81 |
| w1q74_9 | 1,437 | 1,518 | 94.66 |
| w1q74_10 | 1,443 | 1,518 | 95.06 |
| w1q74_11 | 1,429 | 1,518 | 94.14 |
| w1q74_12 | 1,400 | 1,518 | 92.23 |
| w1q74_13 | 1,322 | 1,518 | 87.09 |
| w1q74_14 | 1,486 | 1,518 | 97.89 |
| w1q74_15 | 1,483 | 1,518 | 97.69 |
| w1q74 16 | 1,388 | 1,518 | 91.44 |


| w1q74_17 | 1,484 | 1,518 | 97.76 |
| :---: | :---: | :---: | :---: |
| w1q74_18 | 1,490 | 1,518 | 98.16 |
| w1q74_19 | 1,500 | 1,518 | 98.81 |
| w1q74_20 | 1,499 | 1,518 | 98.75 |
| w1q74_21 | 1,441 | 1,518 | 94.93 |
| w1q74_22 | 1,333 | 1,518 | 87.81 |
| w1q74_23 | 1,176 | 1,518 | 77.47 |
| w1q75 | 23 | 1,518 | 1.52 |
| w1q76 | 18 | 1,518 | 1.19 |
| w1q77a | 10 | 1,518 | 0.66 |
| w1q77b | 19 | 1,518 | 1.25 |
| w1q77c | 14 | 1,518 | 0.92 |
| w1q77d | 13 | 1,518 | 0.86 |
| w1q77e | 17 | 1,518 | 1.12 |
| w1q77f | 13 | 1,518 | 0.86 |
| w1q78 | 22 | 1,518 | 1.45 |
| w1q79 | 19 | 1,518 | 1.25 |
| w1q80 | 184 | 1,518 | 12.12 |
| w1q81 | 166 | 1,518 | 10.94 |
| w1q82 | 85 | 1,518 | 5.6 |
| w1q83 | 17 | 1,518 | 1.12 |
| w1q84 | 15 | 1,518 | 0.99 |
| w1q85 | 14 | 1,518 | 0.92 |
| w1q86 | 11 | 1,518 | 0.72 |
| w1q87 | 12 | 1,518 | 0.79 |
| w1q88 | 16 | 1,518 | 1.05 |
| w1q89 | 849 | 1,518 | 55.93 |
| w1q90 | 19 | 1,518 | 1.25 |
| w1q91 | 20 | 1,518 | 1.32 |
| w1q92 | 23 | 1,518 | 1.52 |
| w1q93 | 24 | 1,518 | 1.58 |
| w1q94 | 15 | 1,518 | 0.99 |
| w1q95 | 17 | 1,518 | 1.12 |
| w1q96 | 24 | 1,518 | 1.58 |
| w1q97 | 21 | 1,518 | 1.38 |
| w1q98 | 22 | 1,518 | 1.45 |
| w1q99 | 22 | 1,518 | 1.45 |
| w1q100 | 19 | 1,518 | 1.25 |
| w1q101 | 18 | 1,518 | 1.19 |
| w1q102 | 1,220 | 1,518 | 80.37 |
| w1q103 | 765 | 1,518 | 50.4 |


| w1q104 | 765 | 1,518 | 50.4 |
| :---: | :---: | :---: | :---: |
| w1q105 | 20 | 1,518 | 1.32 |
| w1q106 | 1,234 | 1,518 | 81.29 |
| w1q107 | 1,220 | 1,518 | 80.37 |
| w1q108 | 1,225 | 1,518 | 80.7 |
| w1q109 | 27 | 1,518 | 1.78 |
| w1q110 | 1,192 | 1,518 | 78.52 |
| w1q111 | 1,012 | 1,518 | 66.67 |
| w1q112 | 1,038 | 1,518 | 68.38 |
| w1q113 | 19 | 1,518 | 1.25 |
| w1q114 | 1,154 | 1,518 | 76.02 |
| w1q115 | 1,268 | 1,518 | 83.53 |
| w1q116 | 1,407 | 1,518 | 92.69 |
| w1q117 | 1,407 | 1,518 | 92.69 |
| w1q118 | 1,152 | 1,518 | 75.89 |
| w1q119 | 26 | 1,518 | 1.71 |
| w1q120 | 1,371 | 1,518 | 90.32 |
| w1q121 | 1,102 | 1,518 | 72.6 |
| w1q122 | 1,101 | 1,518 | 72.53 |
| w1q123a | 15 | 1,518 | 0.99 |
| w1q123b | 14 | 1,518 | 0.92 |
| w1q123c | 18 | 1,518 | 1.19 |
| w1q123d | 19 | 1,518 | 1.25 |
| w1q124 | 14 | 1,518 | 0.92 |
| w1q125 | 14 | 1,518 | 0.92 |
| w1q126 | 14 | 1,518 | 0.92 |
| w1q127 | 15 | 1,518 | 0.99 |
| w1q128 | 15 | 1,518 | 0.99 |
| w1q129 | 15 | 1,518 | 0.99 |
| w1q130 | 16 | 1,518 | 1.05 |
| w1q131 | 17 | 1,518 | 1.12 |
| w1q132 | 14 | 1,518 | 0.92 |
| w1q133 | 1,206 | 1,518 | 79.45 |
| w1q133_1 | 420 | 1,518 | 27.67 |
| w1q133 2 | 1,488 | 1,518 | 98.02 |
| w1q133 3 | 1,445 | 1,518 | 95.19 |
| w1q134 | 1,412 | 1,518 | 93.02 |
| w1q135a | 15 | 1,518 | 0.99 |
| w1q135b | 18 | 1,518 | 1.19 |
| w1q135c | 18 | 1,518 | 1.19 |
| w1q135d | 20 | 1,518 | 1.32 |


| w1q135e | 18 | 1,518 | 1.19 |
| :--- | ---: | ---: | ---: |
| wlq135f | 16 | 1,518 | 1.05 |
| w1q136_1 | 1,314 | 1,518 | 86.56 |
| w1q136_2 | 1,122 | 1,518 | 73.91 |
| w1q136_3 | 1,513 | 1,518 | 99.67 |
| w1q136_4 | 1,327 | 1,518 | 87.42 |
| w1q136_5 | 1,348 | 1,518 | 88.8 |
| w1q136_6 | 1,387 | 1,518 | 91.37 |
| w1q136_7 | 1,007 | 1,518 | 66.34 |
| w1q136_8 | 1,181 | 1,518 | 77.8 |
| w1q136_9 | 1,455 | 1,518 | 95.85 |
| w1q136_10 | 1,464 | 1,518 | 96.44 |
| w1q137 | 17 | 1,518 | 1.12 |
| w1q138 | 17 | 1,518 | 1.12 |
| w1q139_1 | 1,377 | 1,518 | 90.71 |
| w1q139_2 | 1,383 | 1,518 | 91.11 |
| w1q139_3 | 1,516 | 1,518 | 99.87 |
| w1q139_4 | 1,447 | 1,518 | 95.32 |
| w1q139_5 | 1,449 | 1,518 | 95.45 |
| w1q139_6 | 1,423 | 1,518 | 93.74 |
| w1q139_7 | 1,345 | 1,518 | 88.6 |
| w1q139_8 | 1,424 | 1,518 | 93.81 |
| w1q139_9 | 1,494 | 1,518 | 98.42 |
| w1q139_10 | 1,451 | 1,518 | 95.59 |
| w1q140 | 18 | 1,518 | 1.19 |
| w1q141_1 | 1,512 | 1,518 | 99.6 |
| w1q141_2 | 1,511 | 1,518 | 99.54 |
| w1q141_3 | 1,517 | 1,518 | 99.93 |
| w1q141_4 | 1,514 | 1,518 | 99.74 |
| w1q141_5 | 1,512 | 1,518 | 99.6 |
| w1q141-6 | 1,504 | 1,518 | 99.08 |
| w1q141_7 | 1,508 | 1,518 | 99.34 |
| w1q141_8 | 1,515 | 1,518 | 99.8 |
| w1q141_9 | 1,517 | 1,518 | 99.93 |
| w1q141_10 | 1,515 | 1,518 | 99.8 |
| w1q142a | 17 | 1,518 | 1.12 |
| w1q142b | 18 | 1,518 | 1.19 |
| w1q142c | 1,518 | 0.99 |  |
| w1q142d | 1,518 | 1.58 |  |
| w1q142e | 1,518 | 1.19 |  |
| w1q142f | 1.19 |  |  |


| w1q142g | 21 | 1,518 | 1.38 |
| :---: | :---: | :---: | :---: |
| w1q142h | 19 | 1,518 | 1.25 |
| w1q142i | 22 | 1,518 | 1.45 |
| w1q142j | 18 | 1,518 | 1.19 |
| w1q142k | 17 | 1,518 | 1.12 |
| w1q143_1 | 1,321 | 1,518 | 87.02 |
| w1q143_2 | 1,332 | 1,518 | 87.75 |
| w1q143_3 | 1,514 | 1,518 | 99.74 |
| w1q143_4 | 1,451 | 1,518 | 95.59 |
| w1q143_5 | 1,423 | 1,518 | 93.74 |
| w1q143_6 | 1,308 | 1,518 | 86.17 |
| w1q143_7 | 1,341 | 1,518 | 88.34 |
| w1q143_8 | 1,394 | 1,518 | 91.83 |
| w1q143_9 | 1,481 | 1,518 | 97.56 |
| w1q143_10 | 1,433 | 1,518 | 94.4 |
| w1q144a | 14 | 1,518 | 0.92 |
| w1q144b | 14 | 1,518 | 0.92 |
| w1q144c | 17 | 1,518 | 1.12 |
| w1q144d | 21 | 1,518 | 1.38 |
| wlq144e | 16 | 1,518 | 1.05 |
| w1q144f | 20 | 1,518 | 1.32 |
| w1q144g | 17 | 1,518 | 1.12 |
| w1q144h | 18 | 1,518 | 1.19 |
| w1q144i | 14 | 1,518 | 0.92 |
| w1q145_1 | 1,122 | 1,518 | 73.91 |
| w1q145_2 | 1,054 | 1,518 | 69.43 |
| w1q145_3 | 1,510 | 1,518 | 99.47 |
| w1q145_4 | 1,309 | 1,518 | 86.23 |
| w1q145_5 | 1,225 | 1,518 | 80.7 |
| w1q145_6 | 1,273 | 1,518 | 83.86 |
| w1q145_7 | 1,096 | 1,518 | 72.2 |
| w1q145_8 | 1,135 | 1,518 | 74.77 |
| w1q145_9 | 1,441 | 1,518 | 94.93 |
| w1q145_10 | 1,418 | 1,518 | 93.41 |
| w1q146a | 75 | 1,518 | 4.94 |
| w1q146b | 85 | 1,518 | 5.6 |
| w1q146c | 288 | 1,518 | 18.97 |
| w1q146d | 370 | 1,518 | 24.37 |
| w1q146e | 446 | 1,518 | 29.38 |
| w1q146f | 580 | 1,518 | 38.21 |
| w1q146g | 76 | 1,518 | 5.01 |


| w1q146h | 316 | 1,518 | 20.82 |
| :--- | ---: | ---: | ---: |
| w1q146i | 222 | 1,518 | 14.62 |
| w1q146j | 203 | 1,518 | 13.37 |
| w1q146k | 319 | 1,518 | 21.01 |
| w1q1461 | 488 | 1,518 | 32.15 |
| w1q147 | 99 | 1,518 | 6.52 |
| w1q148 | 149 | 1,518 | 9.82 |
| w1q149 | 127 | 1,518 | 8.37 |
| w1q150 | 200 | 1,518 | 13.18 |
| w1q151 | 20 | 1,518 | 1.32 |
| w1q152 | 19 | 1,518 | 1.25 |
| w1q153 | 21 | 1,518 | 1.38 |
| w1q154 | 22 | 1,518 | 1.45 |
| w1q155 | 16 | 1,518 | 1.05 |
| w1q156 | 139 | 1,518 | 9.16 |
| w1q157 | 61 | 1,518 | 4.02 |
| w1q158 | 91 | 1,518 | 5.99 |
| w1q159 | 76 | 1,518 | 5.01 |
| w1q160 | 81 | 1,518 | 5.34 |
| w1q161 | 77 | 1,518 | 5.07 |
| w1q162 | 19 | 1,518 | 1.25 |
| w1q163_1 | 1,284 | 1,518 | 84.58 |
| w1q163_2 | 1,217 | 1,518 | 80.17 |
| w1q163_3 | 1,515 | 1,518 | 99.8 |
| w1q163_4 | 1,210 | 1,518 | 79.71 |
| w1q163_5 | 1,339 | 1,518 | 88.21 |
| w1q163_6 | 1,321 | 1,518 | 87.02 |
| w1q163_7 | 1,122 | 1,518 | 73.91 |
| w1q163_8 | 761 | 1,518 | 50.13 |
| w1q163-9 | 1,443 | 1,518 | 95.06 |
| w1q163_10 | 1,449 | 1,518 | 95.45 |
| w1q164a | 23 | 1,518 | 1.25 |
| w1q164b | 22 | 1,518 | 1.52 |
| w1q164c | 19 | 1,518 | 1.45 |
| w1q164d | 1,518 | 1.25 |  |
| w1q164e | 1,518 | 1.38 |  |
| w1q164f | 1,518 | 1.38 |  |
| w1q164g | 1,518 | 1.32 |  |
| w1q164h | 1,518 | 1.52 |  |
| w1q164i | 1,518 | 1.19 |  |
| w1q164j | 218 | 1.38 |  |


| w1q164k | 22 | 1,518 | 1.45 |
| :---: | :---: | :---: | :---: |
| w1q1641 | 21 | 1,518 | 1.38 |
| w1q165 | 19 | 1,518 | 1.25 |
| w1q166 | 21 | 1,518 | 1.38 |
| w1q167 | 21 | 1,518 | 1.38 |
| w1q168 | 17 | 1,518 | 1.12 |
| w1q169 | 16 | 1,518 | 1.05 |
| w1q170_1 | 1,362 | 1,518 | 89.72 |
| w1q170_2 | 1,488 | 1,518 | 98.02 |
| w1q170_3 | 1,469 | 1,518 | 96.77 |
| w1q170_4 | 1,414 | 1,518 | 93.15 |
| w1q171_1 | 817 | 1,518 | 53.82 |
| w1q171_2 | 1,245 | 1,518 | 82.02 |
| w1q171_3 | 1,342 | 1,518 | 88.41 |
| w1q171_4 | 1,463 | 1,518 | 96.38 |
| w1q171_5 | 1,428 | 1,518 | 94.07 |
| w1q171 6 | 1,465 | 1,518 | 96.51 |
| w1q171_7 | 1,187 | 1,518 | 78.19 |
| w1q171_8 | 1,475 | 1,518 | 97.17 |
| w1q171_9 | 1,384 | 1,518 | 91.17 |
| w1q172 | 39 | 1,518 | 2.57 |
| w1q173 | 32 | 1,518 | 2.11 |
| w1q174 | 41 | 1,518 | 2.7 |
| w1q175 | 43 | 1,518 | 2.83 |
| w1q176 | 24 | 1,518 | 1.58 |
| w1q177_1 | 920 | 1,518 | 60.61 |
| w1q177_2 | 937 | 1,518 | 61.73 |
| w1q177_3 | 1,361 | 1,518 | 89.66 |
| w1q177_4 | 1,118 | 1,518 | 73.65 |
| w1q177_5 | 1,412 | 1,518 | 93.02 |
| w1q177_6 | 1,497 | 1,518 | 98.62 |
| w1q177_7 | 1,513 | 1,518 | 99.67 |
| w1q177_8 | 1,517 | 1,518 | 99.93 |
| w1q177_9 | 1,516 | 1,518 | 99.87 |
| w1q177_10 | 1,417 | 1,518 | 93.35 |
| w1q177_11 | 1,515 | 1,518 | 99.8 |
| w1q177_12 | 1,487 | 1,518 | 97.96 |
| w1q178 | 17 | 1,518 | 1.12 |
| w1q179 | 24 | 1,518 | 1.58 |
| w1q180 | 21 | 1,518 | 1.38 |
| w1q181 | 19 | 1,518 | 1.25 |


| w1q182 | 24 | 1,518 | 1.58 |
| :---: | :---: | :---: | :---: |
| w1q183 | 1,445 | 1,518 | 95.19 |
| w1q184 | 1,467 | 1,518 | 96.64 |
| w1q185 | 1,467 | 1,518 | 96.64 |
| w1q186 | 14 | 1,518 | 0.92 |
| w1q187 | 14 | 1,518 | 0.92 |
| w1q188 | 15 | 1,518 | 0.99 |
| w1q189 | 17 | 1,518 | 1.12 |
| screen_race | 0 | 1,518 | 0 |
| wlrace | 0 | 1,518 | 0 |
| w1sample | 0 | 1,518 | 0 |
| w1sex | 0 | 1,518 | 0 |
| w1 gender | 0 | 1,518 | 0 |
| w1sex_gender | 0 | 1,518 | 0 |
| wlage | 0 | 1,518 | 0 |
| w1sexualid | 0 | 1,518 | 0 |
| w1sexminid | 11 | 1,518 | 0.72 |
| wlpinc | 0 | 1,518 | 0 |
| w1hinc | 0 | 1,518 | 0 |
| w1poverty | 27 | 1,518 | 1.78 |
| wlpovertycat | 27 | 1,518 | 1.78 |
| w1 conversion | 0 | 1,518 | 0 |
| w1 conversi $\sim$ c | 0 | 1,518 | 0 |
| w1conversi~1 | 0 | 1,518 | 0 |
| wlace | 277 | 1,518 | 18.25 |
| wlace_i | 0 | 1,518 | 0 |
| wlace_emo | 91 | 1,518 | 5.99 |
| wlace_emo_i | 0 | 1,518 | 0 |
| wlace_inc | 22 | 1,518 | 1.45 |
| wlace_inc_i | 0 | 1,518 | 0 |
| wlace ipv | 139 | 1,518 | 9.16 |
| wlace_ipv_i | 0 | 1,518 | 0 |
| wlace_men | 20 | 1,518 | 1.32 |
| wlace_men_i | 0 | 1,518 | 0 |
| wlace phy | 61 | 1,518 | 4.02 |
| wlace phy_i | 0 | 1,518 | 0 |
| wlace_sep | 16 | 1,518 | 1.05 |
| wlace_sep_i | 0 | 1,518 | 0 |
| wlace_sex | 75 | 1,518 | 4.94 |
| wlace_sex_i | 0 | 1,518 | 0 |
| wlace_sub | 21 | 1,518 | 1.38 |


| wlace_sub_i | 0 | 1,518 | 0 |
| :---: | :---: | :---: | :---: |
| w1 auditc | 15 | 1,518 | 0.99 |
| wlauditc i | 0 | 1,518 | 0 |
| w1 childgnc | 0 | 1,518 | 0 |
| w1childgnc_i | 0 | 1,518 | 0 |
| w1 connecte $\sim$ s | 51 | 1,518 | 3.36 |
| w1 connecte~i | 0 | 1,518 | 0 |
| w1dudit | 66 | 1,518 | 4.35 |
| w1dudit_i | 0 | 1,518 | 0 |
| wleveryday | 40 | 1,518 | 2.64 |
| wleveryday_i | 0 | 1,518 | 0 |
| w1 feltstigma | 17 | 1,518 | 1.12 |
| w1feltstig~i | 0 | 1,518 | 0 |
| w1 frame_wt | 187 | 1,518 | 12.32 |
| w1hcthreat | 27 | 1,518 | 1.78 |
| w1hcthreat_i | 0 | 1,518 | 0 |
| w1idcentral | 23 | 1,518 | 1.52 |
| w1idcentra~i | 0 | 1,518 | 0 |
| w1 internal $\sim$ d | 29 | 1,518 | 1.91 |
| wlinternal~i | 0 | 1,518 | 0 |
| w1kessler6 | 27 | 1,518 | 1.78 |
| w1kessler6_i | 0 | 1,518 | 0 |
| w1lifesat | 24 | 1,518 | 1.58 |
| w1lifesat_i | 0 | 1,518 | 0 |
| w1meim | 31 | 1,518 | 2.04 |
| w1meim_i | 0 | 1,518 | 0 |
| w1 socialwb | 59 | 1,518 | 3.89 |
| w1socialwb_i | 0 | 1,518 | 0 |
| w1 socsupport | 46 | 1,518 | 3.03 |
| w1socsuppo $\sim$ m | 28 | 1,518 | 1.84 |
| w1socsup $\sim$ m_i | 0 | 1,518 | 0 |
| w1socsuppo $\sim$ r | 30 | 1,518 | 1.98 |
| w1socsup $\sim$ r_i | 0 | 1,518 | 0 |
| w1 socsup $\sim$ _ i | 0 | 1,518 | 0 |
| w1socsuppo $\sim 0$ | 28 | 1,518 | 1.84 |
| w1socsup $\sim$ _i | 0 | 1,518 | 0 |
| w1weightin 1 | 187 | 1,518 | 12.32 |
| w1weightin $\sim 3$ | 187 | 1,518 | 12.32 |
| w1 cumulati~1 | 187 | 1,518 | 12.32 |
| w1 cumulati~2 | 187 | 1,518 | 12.32 |
| w1 cumulati~3 | 187 | 1,518 | 12.32 |


| w1cumulati $\sim \mathrm{g}$ | 187 | 1,518 | 12.32 |
| :--- | ---: | ---: | ---: |

Appendix 6: Missing values for each variable in Wave 2 dataset.

| Variable | Missing |  | Percent <br> Missing |
| :--- | ---: | ---: | ---: |
|  |  |  |  |
| studyid | 0 | 894 | 0 |
| w2weight | 0 | 894 | 0 |
| w2q01 | 9 | 894 | 1.01 |
| w2q02 | 46 | 894 | 5.15 |
| w2q03 | 25 | 894 | 2.8 |
| w2q04 | 5 | 894 | 0.56 |
| w2q05 | 7 | 894 | 0.78 |
| w2q06 | 7 | 894 | 0.78 |
| w2q07 | 8 | 894 | 0.89 |
| w2q08 | 9 | 894 | 1.01 |
| w2q09 | 11 | 894 | 1.23 |
| w2q10 | 7 | 894 | 0.78 |
| w2q11 | 8 | 894 | 0.89 |
| w2q12 | 9 | 894 | 1.01 |
| w2q13 | 10 | 894 | 1.12 |
| w2q14 | 10 | 894 | 1.12 |
| w2q15 | 10 | 894 | 1.12 |
| w2q16 | 9 | 894 | 1.01 |
| w2q17 | 9 | 894 | 1.01 |
| w2q18 | 8 | 894 | 0.89 |
| w2q19a | 10 | 894 | 1.12 |
| w2q19b | 10 | 894 | 1.12 |
| w2q19c | 17 | 894 | 1.9 |
| w2q19d | 10 | 894 | 1.12 |
| w2q20 | 7 | 894 | 0.78 |
| w2q21 | 5 | 894 | 0.56 |
| w2q21_t_verb | 16 | 894 | 0 |
| w2q22_1 | 621 | 894 | 69.46 |
| w2q22_2 | 874 | 894 | 41.83 |
| w2q22_3 | 874 | 894 | 97.76 |
| w2q22-4 | 874 | 894 | 97.76 |
| w2q22_5 | 713 | 894 | 79.75 |
| w2q23a | 894 | 0.89 |  |
| w2q23b | 16 | 894 | 1.34 |
| w2q23c | 894 | 1.79 |  |
| w2q23d | 10 | 1.79 |  |


| w2q24 | 5 | 894 | 0.56 |
| :---: | :---: | :---: | :---: |
| w2q25 | 6 | 894 | 0.67 |
| w2q26 | 7 | 894 | 0.78 |
| w2q27 | 8 | 894 | 0.89 |
| w2q28 | 5 | 894 | 0.56 |
| w2q29a | 7 | 894 | 0.78 |
| w2q29b | 13 | 894 | 1.45 |
| w2q29c | 10 | 894 | 1.12 |
| w2q29d | 13 | 894 | 1.45 |
| w2q29e | 7 | 894 | 0.78 |
| w2q29f | 7 | 894 | 0.78 |
| w2q30 | 7 | 894 | 0.78 |
| w2q31 | 14 | 894 | 1.57 |
| w2q32 | 11 | 894 | 1.23 |
| w2q33 | 9 | 894 | 1.01 |
| w2q34 | 13 | 894 | 1.45 |
| w2q35 | 8 | 894 | 0.89 |
| w2q36 | 8 | 894 | 0.89 |
| w2q37 | 5 | 894 | 0.56 |
| w2q38 | 341 | 894 | 38.14 |
| w2q39 | 342 | 894 | 38.26 |
| w2q40 | 341 | 894 | 38.14 |
| w2q40_t_verb | 0 | 894 | 0 |
| w2q41 | 341 | 894 | 38.14 |
| w2q42 | 342 | 894 | 38.26 |
| w2q43a | 347 | 894 | 38.81 |
| w2q43b | 350 | 894 | 39.15 |
| w2q43c | 359 | 894 | 40.16 |
| w2q43d | 347 | 894 | 38.81 |
| w2q44 | 342 | 894 | 38.26 |
| w2q45 | 343 | 894 | 38.37 |
| w2q46 | 342 | 894 | 38.26 |
| w2q47 | 342 | 894 | 38.26 |
| w2q48 | 342 | 894 | 38.26 |
| w2q49 | 341 | 894 | 38.14 |
| w2q50 | 341 | 894 | 38.14 |
| w2q51 | 565 | 894 | 63.2 |
| w2q52 | 572 | 894 | 63.98 |
| w2q53 | 715 | 894 | 79.98 |
| w2q54 | 715 | 894 | 79.98 |
| w2q55 | 6 | 894 | 0.67 |


| w2q56 | 9 | 894 | 1.01 |
| :---: | :---: | :---: | :---: |
| w2q57 | 11 | 894 | 1.23 |
| w2q58_1 | 824 | 894 | 92.17 |
| w2q58_2 | 533 | 894 | 59.62 |
| w2q58_3 | 825 | 894 | 92.28 |
| w2q58 4 | 705 | 894 | 78.86 |
| w2q58_5 | 888 | 894 | 99.33 |
| w2q58_6 | 837 | 894 | 93.62 |
| w2q58_7 | 875 | 894 | 97.87 |
| w2q58_8 | 838 | 894 | 93.74 |
| w2q58 9 | 791 | 894 | 88.48 |
| w2q58 10 | 885 | 894 | 98.99 |
| w2q58_11 | 886 | 894 | 99.11 |
| w2q58_12 | 894 | 894 | 100 |
| w2q58_13 | 863 | 894 | 96.53 |
| w2q58_t_verb | 0 | 894 | 0 |
| w2q59 | 11 | 894 | 1.23 |
| w2q60_1 | 566 | 894 | 63.31 |
| w2q60 2 | 312 | 894 | 34.9 |
| w2q60_3 | 789 | 894 | 88.26 |
| w2q60_4 | 840 | 894 | 93.96 |
| w2q60 5 | 866 | 894 | 96.87 |
| w2q60_t_verb | 0 | 894 | 0 |
| w2q61 | 9 | 894 | 1.01 |
| w2q62_1 | 683 | 894 | 76.4 |
| w2q62_2 | 806 | 894 | 90.16 |
| w2q62_3 | 241 | 894 | 26.96 |
| w2q63_1 | 434 | 894 | 48.55 |
| w2q63_2 | 365 | 894 | 40.83 |
| w2q63 3 | 397 | 894 | 44.41 |
| w2q63 4 | 748 | 894 | 83.67 |
| w2q63 5 | 616 | 894 | 68.9 |
| w2q63_6 | 717 | 894 | 80.2 |
| w2q64 | 9 | 894 | 1.01 |
| w2q65 | 8 | 894 | 0.89 |
| w2q66 | 6 | 894 | 0.67 |
| w2q67a | 12 | 894 | 1.34 |
| w2q67b | 22 | 894 | 2.46 |
| w2q67c | 26 | 894 | 2.91 |
| w2q67d | 17 | 894 | 1.9 |
| w2q68 1 | 347 | 894 | 38.81 |


| w2q68 2 | 847 | 894 | 94.74 |
| :---: | :---: | :---: | :---: |
| w2q68_3 | 848 | 894 | 94.85 |
| w2q68_4 | 865 | 894 | 96.76 |
| w2q68_5 | 859 | 894 | 96.09 |
| w2q68_6 | 824 | 894 | 92.17 |
| w2q68 7 | 777 | 894 | 86.91 |
| w2q68_8 | 875 | 894 | 97.87 |
| w2q68_9 | 882 | 894 | 98.66 |
| w2q68_10 | 879 | 894 | 98.32 |
| w2q68_11 | 848 | 894 | 94.85 |
| w2q68_12 | 891 | 894 | 99.66 |
| w2q68 13 | 799 | 894 | 89.37 |
| w2q68_14 | 767 | 894 | 85.79 |
| w2q68_15 | 781 | 894 | 87.36 |
| w2q69_1 | 590 | 894 | 66 |
| w2q69_2 | 796 | 894 | 89.04 |
| w2q69 3 | 760 | 894 | 85.01 |
| w2q69 4 | 781 | 894 | 87.36 |
| w2q69 5 | 783 | 894 | 87.58 |
| w2q69_6 | 708 | 894 | 79.19 |
| w2q69_7 | 701 | 894 | 78.41 |
| w2q69_8 | 812 | 894 | 90.83 |
| w2q69_9 | 827 | 894 | 92.51 |
| w2q69_10 | 786 | 894 | 87.92 |
| w2q69_11 | 715 | 894 | 79.98 |
| w2q69_12 | 854 | 894 | 95.53 |
| w2q69_13 | 788 | 894 | 88.14 |
| w2q69_14 | 700 | 894 | 78.3 |
| w2q69_15 | 767 | 894 | 85.79 |
| w2q70 | 36 | 894 | 4.03 |
| w2q71 | 41 | 894 | 4.59 |
| w2q72 | 10 | 894 | 1.12 |
| w2q73 | 11 | 894 | 1.23 |
| w2q74 | 7 | 894 | 0.78 |
| w2q75 | 11 | 894 | 1.23 |
| w2q76 | 9 | 894 | 1.01 |
| w2q77 | 5 | 894 | 0.56 |
| w2q78 | 83 | 894 | 9.28 |
| w2q79 | 65 | 894 | 7.27 |
| w2q80 | 86 | 894 | 9.62 |
| w2q81_1 | 722 | 894 | 80.76 |


| w2q81_2 | 755 | 894 | 84.45 |
| :---: | :---: | :---: | :---: |
| w2q81_3 | 861 | 894 | 96.31 |
| w2q81_4 | 890 | 894 | 99.55 |
| w2q81_5 | 891 | 894 | 99.66 |
| w2q81_6 | 891 | 894 | 99.66 |
| w2q81_7 | 891 | 894 | 99.66 |
| w2q81_8 | 821 | 894 | 91.83 |
| w2q81_9 | 879 | 894 | 98.32 |
| w2q81_10 | 878 | 894 | 98.21 |
| w2q81_11 | 845 | 894 | 94.52 |
| w2q81_12 | 838 | 894 | 93.74 |
| w2q81_13 | 796 | 894 | 89.04 |
| w2q81_14 | 889 | 894 | 99.44 |
| w2q81_15 | 881 | 894 | 98.55 |
| w2q81_16 | 836 | 894 | 93.51 |
| w2q81_17 | 885 | 894 | 98.99 |
| w2q81_18 | 885 | 894 | 98.99 |
| w2q81_19 | 888 | 894 | 99.33 |
| w2q81_20 | 886 | 894 | 99.11 |
| w2q81_21 | 862 | 894 | 96.42 |
| w2q81_22 | 860 | 894 | 96.2 |
| w2q81_23 | 752 | 894 | 84.12 |
| w2q81_24 | 867 | 894 | 96.98 |
| w2q82 | 10 | 894 | 1.12 |
| w2q83 | 8 | 894 | 0.89 |
| w2q84a | 4 | 894 | 0.45 |
| w2q84b | 7 | 894 | 0.78 |
| w2q84c | 6 | 894 | 0.67 |
| w2q84d | 8 | 894 | 0.89 |
| w2q84e | 6 | 894 | 0.67 |
| w2q84f | 6 | 894 | 0.67 |
| w2q85 | 4 | 894 | 0.45 |
| w2q86 | 7 | 894 | 0.78 |
| w2q87 | 5 | 894 | 0.56 |
| w2q88 | 5 | 894 | 0.56 |
| w2q89 | 5 | 894 | 0.56 |
| w2q90 | 5 | 894 | 0.56 |
| w2q91 | 6 | 894 | 0.67 |
| w2q92 | 5 | 894 | 0.56 |
| w2q93 | 6 | 894 | 0.67 |
| w2q94 | 9 | 894 | 1.01 |


| w2q95 | 6 | 894 | 0.67 |
| :---: | :---: | :---: | :---: |
| w2q96 | 5 | 894 | 0.56 |
| w2q97 | 7 | 894 | 0.78 |
| w2q98 | 9 | 894 | 1.01 |
| w2q99 | 5 | 894 | 0.56 |
| w2q100 | 7 | 894 | 0.78 |
| w2q101 | 7 | 894 | 0.78 |
| w2q102 | 11 | 894 | 1.23 |
| w2q103 | 7 | 894 | 0.78 |
| w2q104 | 873 | 894 | 97.65 |
| w2q105 | 7 | 894 | 0.78 |
| w2q106a | 16 | 894 | 1.79 |
| w2q106b | 17 | 894 | 1.9 |
| w2q106c | 151 | 894 | 16.89 |
| w2q106d | 106 | 894 | 11.86 |
| w2q107 | 8 | 894 | 0.89 |
| w2q108 | 5 | 894 | 0.56 |
| w2q109 | 7 | 894 | 0.78 |
| w2q110 | 7 | 894 | 0.78 |
| w2q111 | 6 | 894 | 0.67 |
| w2q112 | 9 | 894 | 1.01 |
| w2q113 | 8 | 894 | 0.89 |
| w2q114 | 6 | 894 | 0.67 |
| w2q115 | 5 | 894 | 0.56 |
| w2q116 | 7 | 894 | 0.78 |
| w2q117 | 557 | 894 | 62.3 |
| w2q118 | 559 | 894 | 62.53 |
| w2q119 | 557 | 894 | 62.3 |
| w2q120 | 557 | 894 | 62.3 |
| w2q121 | 557 | 894 | 62.3 |
| w2q122a | 7 | 894 | 0.78 |
| w2q122b | 8 | 894 | 0.89 |
| w2q122c | 10 | 894 | 1.12 |
| w2q122d | 10 | 894 | 1.12 |
| w2q122e | 8 | 894 | 0.89 |
| w2q122f | 6 | 894 | 0.67 |
| w2q123_1 | 845 | 894 | 94.52 |
| w2q123_2 | 790 | 894 | 88.37 |
| w2q123_3 | 889 | 894 | 99.44 |
| w2q123_4 | 844 | 894 | 94.41 |
| w2q123 5 | 848 | 894 | 94.85 |


| w2q123_6 | 845 | 894 | 94.52 |
| :---: | :---: | :---: | :---: |
| w2q123_7 | 774 | 894 | 86.58 |
| w2q123_8 | 785 | 894 | 87.81 |
| w2q123 9 | 869 | 894 | 97.2 |
| w2q123_10 | 862 | 894 | 96.42 |
| w2q124 | 9 | 894 | 1.01 |
| w2q125 | 9 | 894 | 1.01 |
| w2q126_1 | 858 | 894 | 95.97 |
| w2q126_2 | 864 | 894 | 96.64 |
| w2q126_3 | 893 | 894 | 99.89 |
| w2q126 4 | 888 | 894 | 99.33 |
| w2q126_5 | 877 | 894 | 98.1 |
| w2q126_6 | 873 | 894 | 97.65 |
| w2q126_7 | 867 | 894 | 96.98 |
| w2q126_8 | 870 | 894 | 97.32 |
| w2q126_9 | 889 | 894 | 99.44 |
| w2q126_10 | 875 | 894 | 97.87 |
| w2q127 | 10 | 894 | 1.12 |
| w2q128_1 | 893 | 894 | 99.89 |
| w2q128_2 | 893 | 894 | 99.89 |
| w2q128_3 | 894 | 894 | 100 |
| w2q128_4 | 893 | 894 | 99.89 |
| w2q128_5 | 894 | 894 | 100 |
| w2q128 6 | 894 | 894 | 100 |
| w2q128 7 | 893 | 894 | 99.89 |
| w2q128_8 | 893 | 894 | 99.89 |
| w2q128_9 | 894 | 894 | 100 |
| w2q128_10 | 894 | 894 | 100 |
| w2q129a | 7 | 894 | 0.78 |
| w2q129b | 8 | 894 | 0.89 |
| w2q129c | 12 | 894 | 1.34 |
| w2q129d | 9 | 894 | 1.01 |
| w2q129e | 9 | 894 | 1.01 |
| w2q129f | 8 | 894 | 0.89 |
| w2q129g | 14 | 894 | 1.57 |
| w2q129h | 9 | 894 | 1.01 |
| w2q129i | 12 | 894 | 1.34 |
| w2q129j | 6 | 894 | 0.67 |
| w2q129k | 7 | 894 | 0.78 |
| w2q130_1 | 777 | 894 | 86.91 |
| w2q130_2 | 803 | 894 | 89.82 |


| w2q130_3 | 891 | 894 | 99.66 |
| :---: | :---: | :---: | :---: |
| w2q130_4 | 862 | 894 | 96.42 |
| w2q130_5 | 854 | 894 | 95.53 |
| w2q130_6 | 776 | 894 | 86.8 |
| w2q130_7 | 818 | 894 | 91.5 |
| w2q130_8 | 834 | 894 | 93.29 |
| w2q130_9 | 874 | 894 | 97.76 |
| w2q130_10 | 842 | 894 | 94.18 |
| w2q131a | 6 | 894 | 0.67 |
| w2q131b | 7 | 894 | 0.78 |
| w2q131c | 8 | 894 | 0.89 |
| w2q131d | 9 | 894 | 1.01 |
| w2q131e | 9 | 894 | 1.01 |
| w2q131f | 8 | 894 | 0.89 |
| w2q131g | 10 | 894 | 1.12 |
| w2q131h | 5 | 894 | 0.56 |
| w2q131i | 6 | 894 | 0.67 |
| w2q132_1 | 664 | 894 | 74.27 |
| w2q132_2 | 636 | 894 | 71.14 |
| w2q132_3 | 889 | 894 | 99.44 |
| w2q132_4 | 784 | 894 | 87.7 |
| w2q132_5 | 771 | 894 | 86.24 |
| w2q132_6 | 763 | 894 | 85.35 |
| w2q132_7 | 705 | 894 | 78.86 |
| w2q132_8 | 659 | 894 | 73.71 |
| w2q132_9 | 853 | 894 | 95.41 |
| w2q132_10 | 816 | 894 | 91.28 |
| w2q133a | 32 | 894 | 3.58 |
| w2q133b | 35 | 894 | 3.91 |
| w2q133c | 156 | 894 | 17.45 |
| w2q133d | 197 | 894 | 22.04 |
| w2q133e | 247 | 894 | 27.63 |
| w2q133f | 340 | 894 | 38.03 |
| w2q133g | 26 | 894 | 2.91 |
| w2q133h | 213 | 894 | 23.83 |
| w2q133i | 147 | 894 | 16.44 |
| w2q133j | 117 | 894 | 13.09 |
| w2q133k | 75 | 894 | 8.39 |
| w2q1331 | 194 | 894 | 21.7 |
| w2q133m | 362 | 894 | 40.49 |
| w2q133n | 530 | 894 | 59.28 |


| w2q133o | 521 | 894 | 58.28 |
| :---: | :---: | :---: | :---: |
| w2q134_1 | 680 | 894 | 76.06 |
| w2q134_2 | 705 | 894 | 78.86 |
| w2q134_3 | 819 | 894 | 91.61 |
| w2q134_4 | 776 | 894 | 86.8 |
| w2q134_5 | 786 | 894 | 87.92 |
| w2q134_6 | 886 | 894 | 99.11 |
| w2q134_7 | 894 | 894 | 100 |
| w2q134_8 | 731 | 894 | 81.77 |
| w2q134_9 | 798 | 894 | 89.26 |
| w2q134_10 | 853 | 894 | 95.41 |
| w2q134_11 | 880 | 894 | 98.43 |
| w2q134_12 | 861 | 894 | 96.31 |
| w2q135a | 7 | 894 | 0.78 |
| w2q135b | 7 | 894 | 0.78 |
| w2q135c | 7 | 894 | 0.78 |
| w2q135d | 9 | 894 | 1.01 |
| w2q135e | 11 | 894 | 1.23 |
| w2q135f | 8 | 894 | 0.89 |
| w2q135g | 7 | 894 | 0.78 |
| w2q135h | 6 | 894 | 0.67 |
| w2q135i | 10 | 894 | 1.12 |
| w2q135j | 10 | 894 | 1.12 |
| w2q135k | 7 | 894 | 0.78 |
| w2q1351 | 5 | 894 | 0.56 |
| w2q136 | 9 | 894 | 1.01 |
| w2q137 | 726 | 894 | 81.21 |
| w2q138 | 828 | 894 | 92.62 |
| w2q139 | 826 | 894 | 92.39 |
| w2q140 | 782 | 894 | 87.47 |
| w2q141 | 784 | 894 | 87.7 |
| w2q142 | 783 | 894 | 87.58 |
| w2q143 | 785 | 894 | 87.81 |
| w2q144 | 784 | 894 | 87.7 |
| w2q145 | 782 | 894 | 87.47 |
| w2q146a | 731 | 894 | 81.77 |
| w2q146b | 736 | 894 | 82.33 |
| w2q146c | 736 | 894 | 82.33 |
| w2q146d | 738 | 894 | 82.55 |
| w2q146e | 735 | 894 | 82.21 |
| w2q146f | 737 | 894 | 82.44 |


| w2q146g | 736 | 894 | 82.33 |
| :---: | :---: | :---: | :---: |
| w2q146h | 733 | 894 | 81.99 |
| w2q146i | 738 | 894 | 82.55 |
| w2q146j | 739 | 894 | 82.66 |
| w2q147 t $\mathrm{v} \sim \mathrm{b}$ | 726 | 894 | 81.21 |
| w2q148a | 739 | 894 | 82.66 |
| w2q148b | 780 | 894 | 87.25 |
| w2q148c | 791 | 894 | 88.48 |
| w2q149 | 174 | 894 | 19.46 |
| w2q150 | 176 | 894 | 19.69 |
| w2q151 | 8 | 894 | 0.89 |
| w2q152 | 9 | 894 | 1.01 |
| w2q153 | 8 | 894 | 0.89 |
| w2q154 | 11 | 894 | 1.23 |
| w2q155 | 8 | 894 | 0.89 |
| w2q156 | 21 | 894 | 2.35 |
| w2q157a | 92 | 894 | 10.29 |
| w2q157b | 154 | 894 | 17.23 |
| w2q157c | 105 | 894 | 11.74 |
| w2q157d | 259 | 894 | 28.97 |
| w2q157e | 318 | 894 | 35.57 |
| w2q157f | 342 | 894 | 38.26 |
| w2q158a | 71 | 894 | 7.94 |
| w2q158b | 79 | 894 | 8.84 |
| w2q158c | 96 | 894 | 10.74 |
| w2q158d | 93 | 894 | 10.4 |
| w2q159 | 40 | 894 | 4.47 |
| w2q160a | 158 | 894 | 17.67 |
| w2q160b | 264 | 894 | 29.53 |
| w2q160c | 240 | 894 | 26.85 |
| w2q160d | 368 | 894 | 41.16 |
| w2q160e | 384 | 894 | 42.95 |
| w2q160f | 388 | 894 | 43.4 |
| w2q161a | 138 | 894 | 15.44 |
| w2q161b | 158 | 894 | 17.67 |
| w2q161c | 172 | 894 | 19.24 |
| w2q161d | 175 | 894 | 19.57 |
| gcendiv | 0 | 894 | 0 |
| gcenreg | 0 | 894 | 0 |
| geduc 1 | 0 | 894 | 0 |
| geduc2 | 0 | 894 | 0 |


| gemploy 2010 | 0 | 894 | 0 |
| :---: | :---: | :---: | :---: |
| gmethod_ty 2 | 0 | 894 | 0 |
| gmilesaway | 8 | 894 | 0.89 |
| gmilesaway2 | 8 | 894 | 0.89 |
| gmsaname | 0 | 894 | 0 |
| gresponden~2 | 0 | 894 | 0 |
| gruca | 11 | 894 | 1.23 |
| gruca_i | 0 | 894 | 0 |
| gzipcode | 7 | 894 | 0.78 |
| gzipstate | 0 | 894 | 0 |
| wl gender | 0 | 894 | 0 |
| w1sex | 0 | 894 | 0 |
| w2age | 0 | 894 | 0 |
| w2auditc | 8 | 894 | 0.89 |
| w2auditc_i | 0 | 894 | 0 |
| w2bistigma | 559 | 894 | 62.53 |
| w2bistigma_i | 556 | 894 | 62.19 |
| w2cohort | 0 | 894 | 0 |
| w2connecte $\sim$ s | 26 | 894 | 2.91 |
| w2connecte $\sim$ i | 0 | 894 | 0 |
| w2dudit | 23 | 894 | 2.57 |
| w2dudit_i | 0 | 894 | 0 |
| w2everyday | 26 | 894 | 2.91 |
| w2everyday i | 0 | 894 | 0 |
| w2feltstigma | 8 | 894 | 0.89 |
| w2feltstig~i | 0 | 894 | 0 |
| w2gender | 0 | 894 | 0 |
| w2idcentral | 10 | 894 | 1.12 |
| w2idcentra~i | 0 | 894 | 0 |
| w2internal $\sim$ d | 12 | 894 | 1.34 |
| w2internal~i | 0 | 894 | 0 |
| w2kessler6 | 12 | 894 | 1.34 |
| w2kessler6_i | 0 | 894 | 0 |
| w2sexminid | 8 | 894 | 0.89 |
| w2sexualid | 0 | 894 | 0 |
| w2socialwb | 29 | 894 | 3.24 |
| w2socialwb_i | 0 | 894 | 0 |
| w2socsupport | 24 | 894 | 2.68 |
| w2socsuppo $\sim$ m | 12 | 894 | 1.34 |
| w2socsup $\sim \mathrm{m}$ _i | 0 | 894 | 0 |
| w2socsuppo $\sim$ r | 15 | 894 | 1.68 |


| w2socsup $\sim$ r_i | 0 | 894 | 0 |
| :--- | ---: | ---: | ---: |
| w2socsup $\sim$ _i | 0 | 894 | 0 |
| w2socsuppo $\sim 0$ | 14 | 894 | 1.57 |
| w2socsup $\sim$ o_i | 0 | 894 | 0 |

Appendix 7: Missing values for each variable in Wave 3 dataset.

| Variable | Missing | Total | Percent <br> Missing |
| :--- | :--- | :--- | :--- |
| studyid | 0 | 707 | 0 |
| wave3_weight | 0 | 707 | 0 |
| w3q01 | 9 | 707 | 1.27 |
| w3q02 | 35 | 707 | 4.95 |
| w3q03 | 26 | 707 | 3.68 |
| w3q04 | 10 | 707 | 1.41 |
| w3q05 | 9 | 707 | 1.27 |
| w3q06 | 10 | 707 | 1.41 |
| w3q07 | 11 | 707 | 1.56 |
| w3q08 | 10 | 707 | 1.41 |
| w3q09 | 9 | 707 | 1.27 |
| w3q10 | 13 | 707 | 1.84 |
| w3q11 | 14 | 707 | 1.98 |
| w3q12 | 13 | 707 | 1.84 |
| w3q13 | 14 | 707 | 1.98 |
| w3q14 | 14 | 707 | 1.98 |
| w3q15 | 13 | 707 | 1.98 |
| w3q16 | 15 | 707 | 1.84 |
| w3q17 | 13 | 707 | 2.12 |
| w3q18 | 15 | 707 | 1.84 |
| w3q19a | 17 | 707 | 2.12 |
| w3q19b | 20 | 707 | 2.4 |
| w3q19c | 16 | 707 | 2.83 |
| w3q19d | 12 | 707 | 2.26 |
| w3q20 | 12 | 707 | 1.7 |
| w3q21 | 0 | 707 | 1.7 |
| w3q21_v_verb | 523 | 707 | 0 |
| w3q22_1 | 314 | 707 | 73.97 |
| w3q22_2 | 680 | 707 | 44.41 |
| w3q22_3 | 539 | 707 | 97.6 |
| w3q22_4 | 15 | 707 | 97.45 |
| w3q22_5 | 707 | 76.24 |  |
| w3q23a |  | 2.12 |  |
|  |  |  |  |


| w3q23b | 17 | 707 | 2.4 |
| :---: | :---: | :---: | :---: |
| w3q23c | 21 | 707 | 2.97 |
| w3q23d | 20 | 707 | 2.83 |
| w3q24 | 13 | 707 | 1.84 |
| w3q25 | 14 | 707 | 1.98 |
| w3q26 | 13 | 707 | 1.84 |
| w3q27 | 14 | 707 | 1.98 |
| w3q28 | 12 | 707 | 1.7 |
| w3q29a | 14 | 707 | 1.98 |
| w3q29b | 15 | 707 | 2.12 |
| w3q29c | 14 | 707 | 1.98 |
| w3q29d | 15 | 707 | 2.12 |
| w3q29e | 13 | 707 | 1.84 |
| w3q29f | 13 | 707 | 1.84 |
| w3q30 | 11 | 707 | 1.56 |
| w3q31 | 12 | 707 | 1.7 |
| w3q32 | 14 | 707 | 1.98 |
| w3q33 | 15 | 707 | 2.12 |
| w3q34 | 18 | 707 | 2.55 |
| w3q35 | 13 | 707 | 1.84 |
| w3q36 | 10 | 707 | 1.41 |
| w3q37 | 15 | 707 | 2.12 |
| w3q38 | 303 | 707 | 42.86 |
| w3q39 | 299 | 707 | 42.29 |
| w3q40 | 300 | 707 | 42.43 |
| w3q40b_v_v~b | 0 | 707 | 0 |
| w3q41 | 300 | 707 | 42.43 |
| w3q42 | 301 | 707 | 42.57 |
| w3q43a | 303 | 707 | 42.86 |
| w3q43b | 302 | 707 | 42.72 |
| w3q43c | 314 | 707 | 44.41 |
| w3q43d | 302 | 707 | 42.72 |
| w3q44 | 299 | 707 | 42.29 |
| w3q45 | 299 | 707 | 42.29 |
| w3q46 | 302 | 707 | 42.72 |
| w3q47 | 14 | 707 | 1.98 |
| w3q48 | 13 | 707 | 1.84 |
| w3q49 | 12 | 707 | 1.7 |
| w3q50_1 | 656 | 707 | 92.79 |
| w3q50_2 | 392 | 707 | 55.45 |
| w3q50_3 | 648 | 707 | 91.65 |


| w3q50_4 | 595 | 707 | 84.16 |
| :---: | :---: | :---: | :---: |
| w3q50_5 | 702 | 707 | 99.29 |
| w3q50_6 | 659 | 707 | 93.21 |
| w3q50_7 | 693 | 707 | 98.02 |
| w3q50_8 | 655 | 707 | 92.64 |
| w3q50_9 | 629 | 707 | 88.97 |
| w3q50_10 | 701 | 707 | 99.15 |
| w3q50_11 | 702 | 707 | 99.29 |
| w3q50_12 | 707 | 707 | 100 |
| w3q50_13 | 683 | 707 | 96.61 |
| w3q50_v_verb | 0 | 707 | 0 |
| w3q51 | 428 | 707 | 60.54 |
| w3q52_1 | 581 | 707 | 82.18 |
| w3q52_2 | 523 | 707 | 73.97 |
| w3q52_3 | 674 | 707 | 95.33 |
| w3q52_4 | 691 | 707 | 97.74 |
| w3q52 5 | 695 | 707 | 98.3 |
| w3q52_v_verb | 0 | 707 | 0 |
| w3q53 | 425 | 707 | 60.11 |
| w3q54 | 426 | 707 | 60.25 |
| w3q55 | 14 | 707 | 1.98 |
| w3q56 | 16 | 707 | 2.26 |
| w3q57 | 13 | 707 | 1.84 |
| w3q58 | 71 | 707 | 10.04 |
| w3q59 | 69 | 707 | 9.76 |
| w3q60 | 89 | 707 | 12.59 |
| w3q61_1 | 586 | 707 | 82.89 |
| w3q61_2 | 595 | 707 | 84.16 |
| w3q61_3 | 684 | 707 | 96.75 |
| w3q61_4 | 703 | 707 | 99.43 |
| w3q61 5 | 702 | 707 | 99.29 |
| w3q61_6 | 704 | 707 | 99.58 |
| w3q61_7 | 700 | 707 | 99.01 |
| w3q61_8 | 665 | 707 | 94.06 |
| w3q61_9 | 700 | 707 | 99.01 |
| w3q61_10 | 696 | 707 | 98.44 |
| w3q61_11 | 674 | 707 | 95.33 |
| w3q61_12 | 669 | 707 | 94.63 |
| w3q61_13 | 633 | 707 | 89.53 |
| w3q61_14 | 698 | 707 | 98.73 |
| w3q61_15 | 692 | 707 | 97.88 |


| w3q61_16 | 661 | 707 | 93.49 |
| :---: | :---: | :---: | :---: |
| w3q61_17 | 700 | 707 | 99.01 |
| w3q61_18 | 697 | 707 | 98.59 |
| w3q61_19 | 701 | 707 | 99.15 |
| w3q61_20 | 698 | 707 | 98.73 |
| w3q61_21 | 684 | 707 | 96.75 |
| w3q61_22 | 683 | 707 | 96.61 |
| w3q61_23 | 593 | 707 | 83.88 |
| w3q61_24 | 689 | 707 | 97.45 |
| w3q62 | 15 | 707 | 2.12 |
| w3q63 | 14 | 707 | 1.98 |
| w3q64a | 16 | 707 | 2.26 |
| w3q64b | 13 | 707 | 1.84 |
| w3q64c | 13 | 707 | 1.84 |
| w3q64d | 12 | 707 | 1.7 |
| w3q64e | 12 | 707 | 1.7 |
| w3q64f | 12 | 707 | 1.7 |
| w3q65 | 12 | 707 | 1.7 |
| w3q66 | 12 | 707 | 1.7 |
| w3q67 | 13 | 707 | 1.84 |
| w3q68 | 34 | 707 | 4.81 |
| w3q69 | 13 | 707 | 1.84 |
| w3q70 | 13 | 707 | 1.84 |
| w3q71 | 12 | 707 | 1.7 |
| w3q72 | 13 | 707 | 1.84 |
| w3q73 | 14 | 707 | 1.98 |
| w3q74 | 13 | 707 | 1.84 |
| w3q75 | 15 | 707 | 2.12 |
| w3q76 | 13 | 707 | 1.84 |
| w3q77 | 13 | 707 | 1.84 |
| w3q78 | 15 | 707 | 2.12 |
| w3q79 | 12 | 707 | 1.7 |
| w3q80 | 13 | 707 | 1.84 |
| w3q81 | 17 | 707 | 2.4 |
| w3q82 | 17 | 707 | 2.4 |
| w3q83 | 18 | 707 | 2.55 |
| w3q84 | 18 | 707 | 2.55 |
| w3q85 | 693 | 707 | 98.02 |
| w3q86 | 17 | 707 | 2.4 |
| w3q87a | 25 | 707 | 3.54 |
| w3q87b | 27 | 707 | 3.82 |


| w3q87c | 128 | 707 | 18.1 |
| :---: | :---: | :---: | :---: |
| w3q87d | 75 | 707 | 10.61 |
| w3q88 | 13 | 707 | 1.84 |
| w3q89 | 15 | 707 | 2.12 |
| w3q90 | 13 | 707 | 1.84 |
| w3q91 | 14 | 707 | 1.98 |
| w3q92 | 12 | 707 | 1.7 |
| w3q93 | 12 | 707 | 1.7 |
| w3q94 | 14 | 707 | 1.98 |
| w3q95 | 13 | 707 | 1.84 |
| w3q96 | 12 | 707 | 1.7 |
| w3q97 | 12 | 707 | 1.7 |
| w3q98a | 12 | 707 | 1.7 |
| w3q98b | 12 | 707 | 1.7 |
| w3q98c | 15 | 707 | 2.12 |
| w3q98d | 15 | 707 | 2.12 |
| w3q98e | 20 | 707 | 2.83 |
| w3q99 | 14 | 707 | 1.98 |
| w3q100i_1 | 683 | 707 | 96.61 |
| w3q100i_2 | 625 | 707 | 88.4 |
| w3q101 | 13 | 707 | 1.84 |
| w3q102 | 693 | 707 | 98.02 |
| w3q103 | 693 | 707 | 98.02 |
| w3q104 | 15 | 707 | 2.12 |
| w3q105 | 616 | 707 | 87.13 |
| w3q106 | 616 | 707 | 87.13 |
| w3q107a | 13 | 707 | 1.84 |
| w3q107b | 13 | 707 | 1.84 |
| w3q107c | 14 | 707 | 1.98 |
| w3q107d | 14 | 707 | 1.98 |
| w3q107e | 14 | 707 | 1.98 |
| w3q107f | 14 | 707 | 1.98 |
| w3q107g | 13 | 707 | 1.84 |
| w3q107h | 14 | 707 | 1.98 |
| w3q108 1 | 667 | 707 | 94.34 |
| w3q108_2 | 616 | 707 | 87.13 |
| w3q108_3 | 704 | 707 | 99.58 |
| w3q108_4 | 672 | 707 | 95.05 |
| w3q108_5 | 677 | 707 | 95.76 |
| w3q108_6 | 677 | 707 | 95.76 |
| w3q108 7 | 621 | 707 | 87.84 |


| w3q108_8 | 637 | 707 | 90.1 |
| :---: | :---: | :---: | :---: |
| w3q108_9 | 691 | 707 | 97.74 |
| w3q108_10 | 685 | 707 | 96.89 |
| w3q109 | 18 | 707 | 2.55 |
| w3q110 | 15 | 707 | 2.12 |
| w3q111_1 | 679 | 707 | 96.04 |
| w3q111_2 | 683 | 707 | 96.61 |
| w3q111_3 | 707 | 707 | 100 |
| w3q111 4 | 700 | 707 | 99.01 |
| w3q111_5 | 695 | 707 | 98.3 |
| w3q111 6 | 692 | 707 | 97.88 |
| w3q111 7 | 687 | 707 | 97.17 |
| w3q111_8 | 693 | 707 | 98.02 |
| w3q111_9 | 701 | 707 | 99.15 |
| w3q111_10 | 695 | 707 | 98.3 |
| w3q112 | 15 | 707 | 2.12 |
| w3q113_1 | 702 | 707 | 99.29 |
| w3q113 2 | 706 | 707 | 99.86 |
| w3q113_3 | 707 | 707 | 100 |
| w3q113_4 | 704 | 707 | 99.58 |
| w3q113_5 | 707 | 707 | 100 |
| w3q113_6 | 696 | 707 | 98.44 |
| w3q113_7 | 705 | 707 | 99.72 |
| w3q113 8 | 707 | 707 | 100 |
| w3q113 9 | 707 | 707 | 100 |
| w3q113_10 | 706 | 707 | 99.86 |
| w3q114a | 16 | 707 | 2.26 |
| w3q114b | 17 | 707 | 2.4 |
| w3q114c | 16 | 707 | 2.26 |
| w3q114d | 17 | 707 | 2.4 |
| w3q114e | 14 | 707 | 1.98 |
| w3q114f | 15 | 707 | 2.12 |
| w3q114g | 16 | 707 | 2.26 |
| w3q114h | 14 | 707 | 1.98 |
| w3q114i | 17 | 707 | 2.4 |
| w3q114j | 18 | 707 | 2.55 |
| w3q114k | 14 | 707 | 1.98 |
| w3q115_1 | 636 | 707 | 89.96 |
| w3q115_2 | 638 | 707 | 90.24 |
| w3q115_3 | 704 | 707 | 99.58 |
| w3q115 4 | 683 | 707 | 96.61 |


| w3q115_5 | 684 | 707 | 96.75 |
| :--- | :--- | :--- | :--- |
| w3q115_6 | 637 | 707 | 90.1 |
| w3q115_7 | 646 | 707 | 91.37 |
| w3q115_8 | 668 | 707 | 94.48 |
| w3q115_9 | 695 | 707 | 98.3 |
| w3q115_10 | 666 | 707 | 94.2 |
| w3q116_none | 162 | 707 | 22.91 |
| w3q116a | 12 | 707 | 1.7 |
| w3q116b | 18 | 707 | 2.55 |
| w3q117_none | 212 | 707 | 29.99 |
| w3q117a | 14 | 707 | 1.98 |
| w3q117b | 13 | 707 | 1.84 |
| w3q117c | 13 | 707 | 1.84 |
| w3q117d | 14 | 707 | 1.98 |
| w3q117e | 16 | 707 | 2.26 |
| w3q118 | 279 | 707 | 39.46 |
| w3q119 | 538 | 707 | 76.1 |
| w3q120 | 556 | 707 | 78.64 |
| w3q121 | 545 | 707 | 77.09 |
| w3q122 | 549 | 707 | 77.65 |
| w3q123 | 14 | 707 | 1.98 |
| w3q124 | 15 | 707 | 2.12 |
| w3q125_1 | 701 | 707 | 99.15 |
| w3q125_2 | 698 | 707 | 98.73 |
| w3q125_3 | 707 | 707 | 100 |
| w3q125_4 | 701 | 707 | 99.15 |
| w3q125_5 | 698 | 707 | 98.73 |
| w3q125_6 | 702 | 707 | 99.29 |
| w3q125_7 | 703 | 707 | 99.43 |
| w3q125_8 | 703 | 707 | 99.43 |
| w3q125_9 | 707 | 707 | 100 |
| w3q125_10 | 706 | 707 | 99.86 |
| w3q126a | 11 | 707 | 1.56 |
| w3q126b | 13 | 707 | 1.84 |
| w3q126c | 11 | 707 | 1.56 |
| w3q126d | 11 | 707 | 1.56 |
| w3q126e | 13 | 1.84 |  |
| w3q126f | 707 | 1.84 |  |
| w3q126g | w3q126h | 707 |  |
| w3q126i |  | 707 |  |
|  |  | 707 |  |


| w3q127_1 | 544 | 707 | 76.94 |
| :---: | :---: | :---: | :---: |
| w3q127_2 | 509 | 707 | 71.99 |
| w3q127_3 | 702 | 707 | 99.29 |
| w3q127_4 | 623 | 707 | 88.12 |
| w3q127_5 | 628 | 707 | 88.83 |
| w3q127_6 | 614 | 707 | 86.85 |
| w3q127_7 | 569 | 707 | 80.48 |
| w3q127_8 | 539 | 707 | 76.24 |
| w3q127_9 | 675 | 707 | 95.47 |
| w3q127_10 | 654 | 707 | 92.5 |
| w3q128a | 35 | 707 | 4.95 |
| w3q128b | 44 | 707 | 6.22 |
| w3q128c | 138 | 707 | 19.52 |
| w3q128d | 173 | 707 | 24.47 |
| w3q128e | 226 | 707 | 31.97 |
| w3q128f | 292 | 707 | 41.3 |
| w3q128g | 37 | 707 | 5.23 |
| w3q128h | 161 | 707 | 22.77 |
| w3q128i | 141 | 707 | 19.94 |
| w3q128j | 126 | 707 | 17.82 |
| w3q128k | 71 | 707 | 10.04 |
| w3q1281 | 165 | 707 | 23.34 |
| w3q128m | 305 | 707 | 43.14 |
| w3q128n | 410 | 707 | 57.99 |
| w3q128o | 423 | 707 | 59.83 |
| w3q129a | 14 | 707 | 1.98 |
| w3q129b | 13 | 707 | 1.84 |
| w3q129c | 16 | 707 | 2.26 |
| w3q129d | 16 | 707 | 2.26 |
| w3q129e | 14 | 707 | 1.98 |
| w3q129f | 15 | 707 | 2.12 |
| w3q129g | 15 | 707 | 2.12 |
| w3q129h | 15 | 707 | 2.12 |
| w3q129i | 16 | 707 | 2.26 |
| w3q129j | 14 | 707 | 1.98 |
| w3q129k | 15 | 707 | 2.12 |
| w3q1291 | 14 | 707 | 1.98 |
| w3q130 | 14 | 707 | 1.98 |
| w3q131 | 13 | 707 | 1.84 |
| w3q132 | 15 | 707 | 2.12 |
| w3q133 | 15 | 707 | 2.12 |


| w3q134 | 14 | 707 | 1.98 |
| :---: | :---: | :---: | :---: |
| w3q135a | 13 | 707 | 1.84 |
| w3q135b | 16 | 707 | 2.26 |
| w3q135c | 14 | 707 | 1.98 |
| w3q135d | 13 | 707 | 1.84 |
| w3q135e | 14 | 707 | 1.98 |
| w3q135f | 13 | 707 | 1.84 |
| w3q135g | 16 | 707 | 2.26 |
| w3q135h | 12 | 707 | 1.7 |
| w3q135i | 19 | 707 | 2.69 |
| w3q135j | 14 | 707 | 1.98 |
| w3q135k | 12 | 707 | 1.7 |
| w3q136_1 | 299 | 707 | 42.29 |
| w3q136_2 | 390 | 707 | 55.16 |
| w3q136_3 | 371 | 707 | 52.48 |
| w3q136_4 | 408 | 707 | 57.71 |
| w3q136_v_v~b | 0 | 707 | 0 |
| w3q137 | 15 | 707 | 2.12 |
| w3q138 | 13 | 707 | 1.84 |
| w3q139 | 13 | 707 | 1.84 |
| w3q140a | 75 | 707 | 10.61 |
| w3q140b | 127 | 707 | 17.96 |
| w3q140c | 91 | 707 | 12.87 |
| w3q140d | 186 | 707 | 26.31 |
| w3q140e | 225 | 707 | 31.82 |
| w3q140f | 248 | 707 | 35.08 |
| w3q141a | 65 | 707 | 9.19 |
| w3q141b | 75 | 707 | 10.61 |
| w3q141c | 82 | 707 | 11.6 |
| w3q141d | 86 | 707 | 12.16 |
| w3q142 | 11 | 707 | 1.56 |
| w3q143a | 131 | 707 | 18.53 |
| w3q143b | 203 | 707 | 28.71 |
| w3q143c | 203 | 707 | 28.71 |
| w3q143d | 274 | 707 | 38.76 |
| w3q143e | 289 | 707 | 40.88 |
| w3q143f | 298 | 707 | 42.15 |
| w3q144a | 136 | 707 | 19.24 |
| w3q144b | 147 | 707 | 20.79 |
| w3q144c | 167 | 707 | 23.62 |
| w3q144d | 162 | 707 | 22.91 |


| w3sexminid | 6 | 707 | 0.85 |
| :---: | :---: | :---: | :---: |
| w3sexualid | 0 | 707 | 0 |
| gcendiv | 0 | 707 | 0 |
| gcenreg | 0 | 707 | 0 |
| geduc 1 | 0 | 707 | 0 |
| geduc2 | 0 | 707 | 0 |
| gemploy~2010 | 0 | 707 | 0 |
| gmethod_ty $\sim 3$ | 0 | 707 | 0 |
| gmilesaway | 6 | 707 | 0.85 |
| gmilesaway2 | 6 | 707 | 0.85 |
| gmsaname | 0 | 707 | 0 |
| gp1 | 50 | 707 | 7.07 |
| gp2 | 500 | 707 | 70.72 |
| grace | 0 | 707 | 0 |
| gresponden~3 | 0 | 707 | 0 |
| gruca | 9 | 707 | 1.27 |
| gruca i | 0 | 707 | 0 |
| gsurvey | 0 | 707 | 0 |
| gzipcode | 6 | 707 | 0.85 |
| gzipstate | 0 | 707 | 0 |
| inwave3 | 0 | 707 | 0 |
| nopoliceco $\sim$ t | 366 | 707 | 51.77 |
| screen_race | 0 | 707 | 0 |
| w1sex | 0 | 707 | 0 |
| w3age | 0 | 707 | 0 |
| w3auditc | 14 | 707 | 1.98 |
| w3auditc_i | 0 | 707 | 0 |
| w3cohort | 0 | 707 | 0 |
| w3connecte $\sim$ s | 29 | 707 | 4.1 |
| w3connecte $\sim$ i | 0 | 707 | 0 |
| w3dudit | 24 | 707 | 3.39 |
| w3dudit_i | 0 | 707 | 0 |
| w3everyday | 19 | 707 | 2.69 |
| w3everyday_i | 0 | 707 | 0 |
| w3feltstigma | 15 | 707 | 2.12 |
| w3feltstig~i | 0 | 707 | 0 |
| w3gender | 0 | 707 | 0 |
| w3idcentral | 18 | 707 | 2.55 |
| w3idcentra~i | 0 | 707 | 0 |
| w3internal $\sim$ d | 15 | 707 | 2.12 |
| w3internal $\sim$ | 0 | 707 | 0 |


| w3kessler6 | 18 | 707 | 2.55 |
| :--- | :--- | :--- | :--- |
| w3kessler6_i | 0 | 707 | 0 |
| w3socialwb | 29 | 707 | 4.1 |
| w3socialwb_i | 0 | 707 | 0 |
| w3socsupport | 25 | 707 | 3.54 |
| w3socsuppo $\sim$ m | 17 | 707 | 2.4 |
| w3socsup $\sim$ m_i | 0 | 707 | 0 |
| w3socsuppo $\sim$ r | 21 | 707 | 2.97 |
| w3socsup $\sim$ r_i | 0 | 707 | 0 |
| w3socsup $\sim$ ti | 0 | 707 | 0 |
| w3socsuppo $\sim$ o | 16 | 707 | 2.26 |
| w3socsup $\sim$ o_i | 0 | 707 | 0 |

Appendix 8. Creating an analysis plan and regression analysis using point-and-click method in SPSS

1) Click on Analyze -> Complex Samples -> Prepare for Analysis

2) When the "Analysis Preparation Wizard" window appears, make sure that "Create a plan file" is selected and then click on "Next"

3) You will be creating a file (a .csaplan file) that contains the survey design information, which SPSS will use in its statistical modeling. For now, you just need to enter a name for this file. I named mine "Generations Wave 1 survey design". Click "Save" after entering a name.

4) A window called "Analysis Preparation Wizard" should appear. Here you will specify the weighting variable, by moving the "weight" variable into "Sample Weight". Then you hit "Finish":

5) The survey design file has now been created. You can reuse it whenever you need to do a weighted analysis with this dataset.
6) Only the procedures listed under "Complex Design" can use this survey design file, so you are limited in the analyses available.
7) Let's do a linear regression. First select Complex Samples > General Linear Model. A new window will appear called "Complex Samples Plan for General Linear Model". In the "Plan" section of this window, you should see the survey design file that we just created. If you later reopen SPSS after shutting down, you'll need to Browse to find this file again (or just create it again, it's so easy). If the survey design file is specified, hit "Continue".

8) Enter regression variables as you normally would. Remember that "Factors" is for categorical predictors (last group will be the reference) and "Covariates" is for continuous predictors. You can also specify a subpopulation filtering variable as well. Also, click on "Statistics" and then select "Estimate", "Standard Error", "Confidence Interval", and "t-test", for standard regression output. Then click "Ok" when ready to run.

9) In the output, you should see new output like new tables called "Sample Design Information" and "Factor Information", with columns that use the word "Weighted". This will let you know that SPSS is using the survey design information in the statistical model.

## Sample Design Information

|  |  | N |
| :--- | :--- | ---: |
| Unweighted Cases | Valid | 1331 |
|  | Invalid | 14 |
|  | Total | 1345 |
| Population Size |  | 1326.795 |
| Stage 1 | Strata | 1 |
|  | Units | 1331 |
| Sampling Design Degrees of Freedom | 1330 |  |

## Variable Information

|  | Mean |  |
| :--- | :--- | ---: |
| Dependent Variable | Kessler 6 with imputation | 14.66 |

## Factor Information

|  |  | Weighted Count | Weighted Percent |
| :--- | :--- | ---: | ---: |
| Cohort | Younger | 805.159 | $60.7 \%$ |
|  | Middle | 281.642 | $21.2 \%$ |
|  | Older | 239.993 | $18.1 \%$ |
| Population Size |  | 1326.795 | $100.0 \%$ |

10) The regression parameter estimates table will look familiar, but may have an extra column called "Design Effect", which will be filled if the option is chosen.

| Parameter | Estimate | Std. Error | Parameter Estimates ${ }^{\text {a }}$ |  |  |  |  | Design Effect |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 95\% Confidence Interval |  | Hypothesis Test |  |  |  |
|  |  |  | Lower | Upper | t | df | Sig. |  |
| (Intercept) | 11.345 | . 255 | 10.845 | 11.845 | 44.496 | 1330.000 | . 000 |  |
| [cohort=1] | 4.726 | . 363 | 4.014 | 5.437 | 13.029 | 1330.000 | . 000 |  |
| [cohort=2] | 2.112 | . 471 | 1.188 | 3.037 | 4.482 | 1330.000 | . 000 |  |
| [cohort=3] | . $000{ }^{\text {b }}$ | . | . | . | . | . | . |  |

a. Model: Kessler 6 with imputation $=($ Intercept $)+$ cohort
b. Set to zero because this parameter is redundant.


[^0]:    ${ }^{1}$ Generations is funded by a grant from the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD grant 1R01HD078526) and through supplemental grants from the National Institutes of Health, Office of Behavioral and Social Sciences Research and the Office of Research on Women's Health. The Generations investigators are: Ilan H. Meyer,Ph.D., (PI), David M. Frost, Ph.D., Phillip L. Hammack, Ph.D., Marguerita Lightfoot, Ph.D., Stephen T. Russell, Ph.D., and Bianca D.M. Wilson, Ph.D. (Co-Investigators, listed alphabetically).

[^1]:    ${ }^{2}$ Participants were recruited for the parallel TransPop study between March 8, 2016 - June 20, 2016 and January 1, 2017 - April 4, 2018. During this time, questions assessing current gender identity were included on the Gallup screen to determine whether respondents were routed either to the Generations (lesbian, gay, bisexual respondents who were not transgender) or TransPop study (transgender respondents, regardless of sexual orientation). Current gender identity on the Gallup screen was assessed with one of two questions. The first questions was "which of the following terms best describes your current gender identity?" Response options were: man, woman, non-binary/genderqueer. The second question was "Do you currently describe yourself as a man, a woman, or transgender?" Response options were: man, woman, transgender.

[^2]:    ${ }^{3}$ At the time the data were cleaned, 2018 poverty thresholds were not available. For the 29 respondents from the extended wave 1 sample who completed the Generations survey in 2018, their poverty statuses were calculated using 2017 poverty thresholds.

[^3]:    ${ }^{4}$ There was slight variation of the information sheets provided in Baseline, Wave 2, and Wave 3, due to changes in IRB requirements that were not specific to the study. This version of the information sheet is from Wave 3.

