UnderStandingAmericaStudy

Contents

1 INTRODUCTION

This UAS panel survey, titled "UAS 604: Mental health", asks respondents how they have been feeling lately, and about how life has been going using the NIH Patient-Reported Outcomes Measurement Information System item banks in a Computer Adaptive Test (CAT) setup. This survey is currently in the field. Respondents were paid $3 to complete the survey.

1.1 Topics

This survey contains questions (among others) on the following topics: Cognitive Abilities. A complete survey topic categorization for the UAS can be found here.

1.2 Experiments

This survey did not include any experiments. A complete survey experiment categorization for the UAS can be found here.

1.3 Citation

Each publication, press release or other document that cites results from this survey must include an acknowledgment of UAS as the data source and a disclaimer such as, 'The project described in this paper relies on data from survey(s) administered by the Understanding America Study, which is maintained by the Center for Economic and Social Research (CESR) at the University of Southern California. The content of this paper is solely the responsibility of the authors and does not necessarily represent the official views of USC or UAS.' For any questions or more information about the UAS, contact Tania Gutsche, Project and Panel Manager, Center for Economic and Social Research, University of Southern California, at tgutsche@usc.edu.

2 SURVEY RESPONSE AND DATA

2.1 Sample selection and response rate

The sample selection for this survey was:

All active respondents.

As such, this survey has so far been made available to 13845 UAS participants. Of those 13845 participants, 11110 completed the survey and are counted as respondents. Of those who are not counted as respondents, 29 started the survey without completing and 2706 did not start the survey. The preliminary overall response rate is 80.25%.
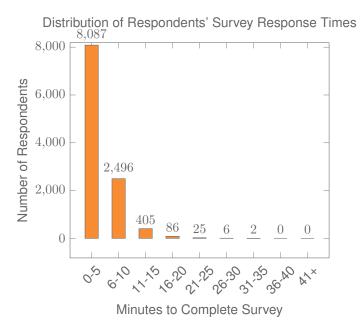
Note: We are unable to provide sample weights for a small number of UAS members (see the Sample and weighting section below for details). If they completed the survey, these members are included in the data set with a weight of zero, but accounted for in the computation of total sample size and survey response rate.%.

The detailed survey response rate is as follows:

UAS604 - Response Overview	
Size of selected sample	13845
Completed the survey	11110
Started but did not complete the survey	29
Did not start the survey	2706
Response rate	80.25%

2.2 Timings

All reported timings and response rate statistics are as of May 31, 2025. The survey took respondents an average of 5 minutes, and the full distribution of survey response times is in the figure below. Times per question are available upon request.

Distribution of Respondents' Survey Response Times

2.3   Weighting

Weights are not (yet) available for this survey. Please contact UAS staff with any questions.

3 STANDARD VARIABLES

Each Understanding America Study data contains a series of standard variables, consisting of individual, household and sample identifiers, language indicator, time stamps and a rating by the respondent of how much he or she liked the survey:

- ○ **uasid**: the identifier of the respondent. This identifier is assigned to a respondent at recruitment and stays with the respondent throughout each and every survey he/she participates in. When analyzing data from multiple surveys, the 'uasid' can be used to merge data sets.

- ○ **uashhid**: the household identifier of the respondent. Every member is assigned a household identifier, stored in the variable 'uashhid'. For the primary respondent this identifier equals his or her 'uasid'. All other eligible members of the primary respondent's household (everyone who is 18 or older in the household) who become UAS respondents receive the 'uasid' of the primary respondent as their household identifier. The identifier 'uashhid' remains constant over time for all respondents. Thus it is always possible to find the original UAS household of an UAS panel member (even after they, for example, have moved out to form another household).

- ○ **survhhid**: uniquely identifies the household a UAS panel member belongs to in a given survey. For instance, if the primary respondent and his/her spouse are both UAS members at the time of a given survey, they both receive the same 'survhhid' identifier for that survey. If they subsequently split, they receive two different 'survhhid' in subsequent surveys. They, however, always share the same 'uashhid'. The identifier 'survhhid' is set to missing (.) if no other household members are UAS panel members at the time of the survey. Since individuals can answer the same survey at different points in time (which can be relatively far apart if the survey is kept in the field for a prolonged time), it may be possible that, within the same data set, household members have different 'survhhid' reflecting different household compositions at the time they answered the survey. For instance, suppose that the primary respondent and his/her spouse are both UAS members. If the primary respondent answers the survey when he/she is living with the spouse, but the spouse answers the survey when the couple has split, they receive different 'survhhid'. Hence, the variable 'survhhid' identifies household membership of UAS panel members, at the time the respondent answers the survey. Note: in the My Household survey 'survhhid' is set to unknown (.u) for respondents who last participated in the My Household survey prior to January 21, 2015.

- ○ **uasmembers**: is the number of other household members who are also UAS panel members at the time of the survey. Since individuals can answer the same survey at different points in time (which can be relatively far apart is the survey is kept in the field for a prolonged time), it may be possible that, within the same data set, the primary respondent of a household has a value of '0', whereas the second UAS household respondent has a value of '1'. Therefore 'uasmembers' should be interpreted as the

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number of household and UAS panel members at the time the respondent answers the survey. Note: in the My Household survey 'uasmembers' is set to unknown (.u) for respondents who last participated in the My Household survey prior to January 21, 2015.

- ○ **sampleframe**: indicates the sampling frame from which the household of the respondent was recruited. All UAS recruitment is done through address based sampling (ABS) in which samples are acquired based on postal records. Currently, the variable 'sampleframe' takes on four values reflecting four distinct sample frames used by the UAS over the year (in future data sets the number of sample frames used for recruitment may increase if additional specific populations are targeted in future recruitment batches):

  1. U.S. National Territory: recruited through ABS within the entire U.S.
  2. Areas high concentration Nat Ame: recruited through ABS in areas with a high concentration of Native Americans in the zip-code. Within these batches, individuals who are not Native Americans are not invited to join the UAS.
  3. Los Angeles County: recruited through ABS within Los Angeles County.
  4. California: recruited through ABS within California.

  Note: prior to March 6, 2024 this variable was called sampletype and had the following value labels for the above list in UAS data sets:

  1. Nationally Representative Sample: recruited through ABS within the entire U.S.
  2. Native Americans: recruited through ABS in areas with a high concentration of Native Americans. Within these batches, individuals who are not Native Americans are not invited to join the UAS.
  3. LA County: recruited through ABS within Los Angeles County.
  4. California: recruited through ABS within California.

- ○ **batch**: indicates the batch from which the respondent was recruited. Currently, this variable takes the following values (in future data sets the number of batches may increase as new recruitment batches are added to the UAS):

  1. ASDE 2014/01
  2. ASDE 2014/01
  3. ASDE 2014/01
  4. Public records 2015/05
  5. MSG 2015/07
  6. MSG 2016/01
  7. MSG 2016/01
  8. MSG 2016/01
  9. MSG 2016/02

10. MSG 2016/03
11. MSG 2016/04
12. MSG 2016/05
13. MSG 2016/08
14. MSG 2017/03
15. MSG 2017/11
16. MSG 2018/02
17. MSG 2018/08
18. MSG 2019/04
19. MSG 2019/05
20. MSG 2019/11
21. MSG 2020/08
22. MSG 2020/10
23. MSG 2021/02
24. MSG 2021/08
25. MSG 2021/08
26. MSG 2022/02
27. MSG 2022/02
28. MSG 2022/08
29. MSG 2022/11
30. MSG 2022/11
31. MSG 2023/01
32. MSG 2023/06
33. MSG 2023/09
34. MSG 2023/10
35. MSG 2025/02

Note: prior to March 6, 2024 this variable had the following value labels for the above list in UAS data sets:

1. ASDE 2014/01 Nat.Rep.
2. ASDE 2014/01 Native Am.
3. ASDE 2014/11 Native Am.
4. LA County 2015/05 List Sample
5. MSG 2015/07 Nat.Rep.
6. MSG 2016/01 Nat.Rep. Batch 2

7. MSG 2016/01 Nat.Rep. Batch 3
8. MSG 2016/01 Nat.Rep. Batch 4
9. MSG 2016/02 Nat.Rep. Batch 5
10. MSG 2016/03 Nat.Rep. Batch 6
11. MSG 2016/04 Nat.Rep. Batch 7
12. MSG 2016/05 Nat.Rep. Batch 8
13. MSG 2016/08 LA County Batch 2
14. MSG 2017/03 LA County Batch 3
15. MSG 2017/11 California Batch 1
16. MSG 2018/02 California Batch 2
17. MSG 2018/08 Nat.Rep. Batch 9
18. MSG 2019/04 LA County Batch 4
19. MSG 2019/05 LA County Batch 5
20. MSG 2019/11 Nat. Rep. Batch 10
21. MSG 2020/08 Nat. Rep. Batch 11
22. MSG 2020/10 Nat. Rep. Batch 12
23. MSG 2021/02 Nat. Rep. Batch 13
24. MSG 2021/08 Nat. Rep. Batch 15
25. MSG 2021/08 Nat. Rep. Batch 16
26. MSG 2022/02 Nat. Rep. Batch 17 (priority)
27. MSG 2022/02 Nat. Rep. Batch 17 (regular)
28. MSG 2022/08 Nat. Rep. Batch 18
29. MSG 2022/11 LA County Batch 6
30. MSG 2022/11 Nat. Rep. Batch 20
31. MSG 2023/01 Nat. Rep. Batch 21
32. MSG 2023/06 Nat. Rep. Batch 22
33. MSG 2023-09 Native Am. Batch 3
34. MSG 2023-10 Nat. Rep. Batch 23

○ **primary_respondent**: indicates if the respondent was the first person within the household (i.e. to become a member or whether s/he was added as a subsequent member. A household in this regard is broadly defined as anyone living together with the primary respondent. That is, a household comprises individuals who live together, e.g. as part of a family relationship (like a spouse/child/parent) or in context of some other relationship (like a roommate or tenant).

- **hardware**: indicates whether the respondent ever received hardware or not. Note: this variable should not be used to determine whether a respondent received hardware at a given point in time and/or whether s/he used the hardware to participate in a survey. Rather, it indicates whether hardware was ever provided:

  1. None
  2. Tablet (includes Internet)

- **language**: the language in which the survey was conducted. This variable takes a value of 1 for English and a value of 2 for Spanish.

- **start_date (start_year, start_month, start_day, start_hour, start_min, start_sec)**: indicates the time at which the respondent started the survey.

- **end_date (end_year, end_month, end_day, end_hour, end_min, end_sec)**: indicates the time at which the respondent completed the survey.

- **cs_001**: indicates how interesting the respondent found the survey.

4 BACKGROUND DEMOGRAPHICS

Every UAS survey data set includes demographic variables, which provide background information about the respondent and his/her household. Demographic information such as age, ethnicity, education, marital status, work status, state of residence, family structure is elicited every quarter through the "My Household" survey. The demographic variables provided with each survey are taken from the most recent 'MyHousehold' survey answered by the respondent. If at the time of a survey, the information in "My Household" is more than three months old, a respondent is required to check and update his or her information before being able to take the survey.

The following variables are available in each survey data set:

- **gender**: the gender of the respondent.

- **dateofbirth_year**: the year of birth of the respondent.

- **age**: the age of the respondent at the start of the survey.

- **agerange**: if the respondent's age cannot be calculate due to missing information, 'agerange' indicates the approximate age. Should a value for both the 'age' and 'agerange' be present, then 'age' takes precedence over 'agerange'.

- **citizenus**: indicates whether the respondent is a U.S. citizen.

- **bornus**: indicates whether the respondent was born in the U.S.

- **stateborn**: indicates the state in which the respondent was born. This is set to missing (.) if the respondent was not born in the U.S.

- **countryborn**: indicates the country in which the respondent was born. This is set to missing (.) if the respondent was born in the U.S.

- **countryborn_other**: indicates the country of birth if that country is not on the drop down list of countries shown to the respondent'.

- **statereside**: the state in which the respondent is living.

- **immigration_status**: indicates whether the respondent is an immigrant. It takes one of the following values: 0 Non-immigrant, 1 First generation immigrant (immigrant who migrated to the U.S), 2 Second generation immigrant (U.S.-born children of at least one foreign-born parent), 3 Third generation immigrant (U.S.-born children of at least one U.S.-born parent, where at least one grandparent is foreign-born), or 4 Unknown immigrant status.

- **maritalstatus**: the marital status of the respondent.

- **livewithpartner**: indicates whether the respondent lives with a partner.

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- **education**: the highest level of education attained by the respondent.

- **hisplatino**: indicates whether the respondent identifies him or herself as being Hispanic or Latino. This variable is asked separately from race.

- **hisplatinogroup**: indicates which Hispanic or Latino group a respondent identifies him or herself with. This is set to missing (.) if the respondent does not identify him or herself as being Hispanic or Latino.

- **white**: indicates whether the respondent identifies him or herself as white (Caucasian).

- **black**: indicates whether the respondent identifies him or herself as black (African-American).

- **nativeamer**: indicates whether the respondent identifies him or herself as Native American (American Indian or Alaska Native).

- **asian**: indicates whether the respondent identifies him or herself as Asian (Asian-American).

- **pacific**: indicates whether the respondent identifies him or herself as Native Hawaiian or Other Pacific Islander.

- **race**: indicates the race of the respondent as singular (e.g., '1 White' or '2 Black') or as mixed (in case the respondent identifies with two or more races). The value '6 Mixed' that the respondent answered 'Yes' to at least two of the single race categories. This variable is generated based on the values of the different race variables (white, black, nativeamer, asian, pacific). This composite measure is not conditional on hisplatino, so an individual may identify as Hispanic or Latino, and also as a member of one or more racial groups.

- **working**: indicates whether the respondent is working for pay.

- **sick_leave**: indicates whether the respondent is not working because sick or on leave.

- **unemp_layoff**: indicates whether the respondent is unemployed or on lay off.

- **unemp_look**: indicates whether the respondent is unemployed and looking for a job.

- **retired**: indicates whether the respondent is retired.

- **disabled**: indicates whether the respondent has a disability.

- **lf_other**: specifies other labor force status.

- **laborstatus**: indicates the labor force status of the respondent as singular (e.g., '1 Working for pay' or '2 On sick or other leave') or as mixed (in case the respondent selects two or more labor statuses). The value '8 Mixed' indicates that the respondent answered 'Yes' to at least two of the single labor force status variables. This variable is generated based on the values of the different labor status variables (working, sick_leave, unempl_layoff, unempl_look, retired, disabled, lf_other).

- **employmenttype**: indicates the employment type of the respondent (employed by the government, by a private company, a nonprofit organization, or self-employed). This is set to missing (.) if the respondent is not currently working or currently on sick or other leave.

- **workfullpart**: indicates whether the respondent works full or part-time. This is set to missing (.) if the respondent is not currently working or currently on sick or other leave.

- **hourswork**: indicates the number of hours the respondent works per week. This is set to missing (.) if the respondent is not currently working or currently on sick or other leave.

- **hhincome**: is the total combined income of all members of the respondent's household (living in their household) during the past 12 months.

- **anyhhmember**: indicates whether there were any members in the respondent's household at the time he/she answered the survey as reported by the respondent.

- **hhmembernumber**: indicates the number of household members in the respondent's household at the time of the survey as reported by the respondent. It may be that 'anyhhmember' is 'Yes', but 'hhmembernumber' is missing if the respondent did not provide the number of household members at the time of the survey.

- **hhmemberin_#**: indicates whether a household member is currently in the household as reported by the respondent. Household members are never removed from the stored household roster and their information is always included in survey data sets. The order of the roster is the same order in which household members were specified by the respondent in the 'MyHousehold' survey. The order is identified by the suffix _# (e.g., _1 indicates the first household member, _2 the second household member, etc.).

  As an example, if the first household member is in the household at the time of the survey, 'hhmemberin_1' is set to '1 HH Member 1 is in the HH'; if he/she has moved out, 'hhmemberin_1' is set to '0 HH member 1 is no longer in the HH'. Since information of other household members (stored in the variables listed below) is always included in survey data sets, information about 'hhmemberin_1' is available whether this person is still in the household or has moved out.

- **hhmembergen_#**: indicates the gender of another household member as reported by the respondent.

- **hhmemberage_#**: indicates the age of another household member. The age is derived from the month and year of birth of the household member as reported by the respondent.

- **hhmemberrel_#**: indicates the relationship of the respondent to the other household member as reported by the respondent.

○ **hhmemberuasid_#**: is the 'uasid' of the other household member if this person is also a UAS panel member. It is set to missing (.) if this person is not a UAS panel member at the time of the survey. Since this identifier is directly reported by the respondent (chosen from a preloaded list), it may differ from the actual (correct) 'uasid' of the UAS member it refers to because of reporting error. Also, this variable should not be used to identify UAS members in a given household at the time of the survey. This is because the variables 'hhmemberuasid_#' are taken from the most recent 'My Household' and changes in household composition involving UAS members may have occurred between the time of the respondent answered 'My Household' and the time the respondent answers the survey. To follow UAS members of a given household, it is advised to use the identifiers 'uashhid' and 'survhhid'.

○ **lastmyhh_date**: the date on which the demographics variables were collected through the 'My Household' survey.

In addition, data sets created after May 8, 2025 include an urbanicity variable. It is based on panel members' current census tract of residence and the 2010 Rural-Urban Commuting Area (RUCA) codes released by the US Department of Agriculture's Economic Research Service. To preserve confidentiality, the UAS collapses the 10 primary RUCA codes to 4 levels: Metropolitan, Micropolitan, Small/Rural, and Unknown. The Metropolitan level corresponds to primary RUCA codes 1-3, the Micropolitian level corresponds to RUCA codes 4-6, and the Small/Rural UAS classification corresponds to RUCA codes 7-10.

For detailed information and definitions of the 10 primary RUCA codes, please visit the USDA ERS Rural-Urban Commuting Area Codes site. Surveys conducted completely prior to May 8, 2025 will have an urbanicity data set available on request.

5 MISSING DATA CONVENTIONS

Data files provide so-called clean data, that is, answers given to questions that are not applicable anymore at survey completion (for example because a respondent went back in the survey and skipped over a previously answered question) are treated as if the questions were never asked. In the data files all questions that were asked, but not answered by the respondent are marked with (.e). All questions never seen by the respondent (or any dirty data) are marked with (.a). The latter may mean that a respondent did not view the question because s/he skipped over it; or alternatively that s/he never reached that question due to a break off. If a respondent did not complete a survey, the variables representing survey end date and time are marked with (.c). Household member variables are marked with (.m) if the respondent has less household members (e.g. if the number of household members is 2, any variables for household member 3 and up are marked with (.m).

UAS provides data in STATA and CSV format. Stata data sets come with include variable labels that are not available in the CSV files. Value labels are provided for single-response answer option. In STATA these labels will include the labels 'Not asked' and 'Not answered' for (.a) and (.e), and will show in tabulations such as 'tab q1, missing'. For multiple-response questions a binary variable is created for each answer option indicating whether the option was selected or not. A summary variable is also provided in string format reflecting which options were selected and in which order. For example, if a question asked about favorite animals with options cat, dog, and horse, then if a respondent selected horse and then cat, the binary variables for horse and cat will be set to yes, while the overall variable would have a string value of '3-1'. If no answer was given, all binary variables and the summary variable will be marked with '.e'.

Questions that are asked multiple times are often implemented as so-called array questions. Supposing the name of such question was Q1 and it was asked in 6 different instances, your data set would contain the variables Q1_1_ to Q1_6_. To illustrate, if a survey asked the names of all children, then child_1_ would contain the name of the first child the respondent named and so on.

More information about the UAS data in general can be found on the UAS Data Pages web site.

6   ROUTING SYNTAX

The survey with routing presented in the next section includes all of the questions that make up this survey, the question answers when choices were provided, and the question routing. The routing includes descriptions of when questions are grouped, conditional logic that determines when questions are presented to the respondent, randomization of questions and answers, and fills of answers from one question to another.

If you are unfamiliar with conditional logic statements, they are typically formatted so that *if* the respondent fulfills some condition (e.g. they have a cellphone or a checking account), *then* they are presented with some other question or the value of some variable is changed. If the respondent does not fulfill the condition (e.g. they are not a cellphone adopter or they do not have a checking account), something *else* happens such as skipping the next question or changing the variable to some other value. Some of the logic involved in the randomization of questions or answers being presented to the respondent is quite complex, and in these instances there is documentation to clarify the process being represented by the routing.

Because logic syntax standards vary, here is a brief introduction to our syntax standards. The syntax used in the conditional statements is as follows: '=' is equal to, '<' is less than, '>' is greater than, and '!=' is used for does not equal. When a variable is set to some number N, the statement looks like 'variable := N'.

The formatting of the questions and routing are designed to make it easier to interpret what is occurring at any given point in the survey. Question ID is the bold text at the top of a question block, followed by the question text and the answer selections. When a question or variable has associated data, the name links to the appropriate data page, so you can easily get directly to the data. Text color is used to indicate the routing: red is conditional logic, gold is question grouping, green is looping, and orange is used to document randomization and other complex conditional logic processes. The routing is written for a computer to parse rather than a human to read, so when the routing diverges significantly from what is displayed to the respondent, a screenshot of what the respondent saw is included.

The name of the randomization variables are defined in proximity to where they are put into play, and like the question ID the names of the randomization variables can be used to link directly to the associated data page.

7 SURVEY WITH ROUTING

/* The NIH Patient-Reported Outcomes Measurement Information System (PROMIS) initiative has developed publicly available self-report instruments for various health-related constructs, including mental health domains (see https://www.healthmeasures.net/explore-measurement-systems/promis). PROMIS instruments were developed using item response theory (IRT) methods and are organized as item banks. An item bank is a repository of items that all measure the same construct and that were all calibrated on the same metric, which enables item administration using computer adaptive testing (CAT). Rather than administering the same fixed set of items to each respondent, CAT uses a respondent's prior item responses to determine which item from the larger item bank to administer next, which helps improve measurement precision.

The PROMIS item banks for the domains administered in this survey have been calibrated to a normative sample representing the general US population with a 2-parameter logistic (2-PL) model for ordered categorical data (a graded response model). Scores are given as "theta" and "T-score" values. Theta values have an approximate mean of 0 and SD of 1 in the general population. T-scores have an approximate mean of 50 and SD of 10 in the general population.

For each respondent and domain, the CAT was initialized (i.e., the first item selected) using a starting theta value of 0. Following the respondents' answer to the first item, the theta value was updated (estimated using expected a posteriori [EAP] scoring) and subsequent items were adaptively selected using the maximum posterior weighted information (MPWI) criterion. CAT item administration stopped after 3 items were administered per domain and respondent.

The dataset contains 3 theta values and 3 T-scores per respondent and domain. The first two represent interim values estimated after a respondent's answers to the first and second item and these should be used only for methodological research purposes. The final scores resulting from the CAT administration are domainthetas_3_ and domainthetas_tscore_3_. Higher scores on these variables represent higher levels of anger, of positive affect, and of meaning and purpose, respectively. Variables representing the standard errors of the estimated theta values and T-scores (domainthetas_3_se and domainthetas_tscore_3_se) are provided, as well.

The specific questions that are asked of each respondent are captured in the domainorder_1_ to domainorder_3_ variables. These takes the following values:

○ Meaning and purpose:

- **–** 1 I understand my life's meaning.
- **–** 2 My life has a clear sense of purpose.
- **–** 3 I have a good sense of what makes my life meaningful.

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- 4 I have discovered a satisfying life purpose.
- 5 I generally feel that what I do in my life is valuable and worthwhile.
- 6 My daily life is full of things that are interesting to me.
- 7 To me, the things I do are all worthwhile.
- 8 I value my activities a lot.
- 9 I have lots of reasons for living.
- 10 I have very clear goals and aims for my life.
- 11 I understand the world around me.
- 12 I realize my life has a great deal of personal meaning to me.
- 13 My life as a whole has meaning.
- 14 My life makes sense to me.
- 15 I have a reason for living.
- 16 My life has been productive.
- 17 I feel a sense of purpose in my life.
- 18 I can make sense of my existence.
- 19 My life has value.
- 20 I understand that there is a reason for my life.
- 21 My life has meaning.
- 22 The things I do in my life are of significance.
- 23 I can make sense of my life.
- 24 My life has significance.
- 25 The things I do in my life are of value.
- 26 I have a clear understanding of what life is about.
- 27 I have a clear sense of direction in life.
- 28 I feel that my life has meaning.
- 29 My life is fulfilling.
- 30 My life matters.
- 31 I can understand my life.
- 32 I experience deep fulfillment in my life.
- 33 Thinking about my life, I am positive about my future.
- 34 Thinking about my life, I know where I am going in life.
- 35 Thinking about my life, I can reach my goals in life.
- 36 Thinking about my life, my life is filled with meaning.
- 37 Thinking about my life, my life has purpose.

- Emotional support:
  - 1 I have people who I can talk to about my health
  - 2 I have someone who will listen to me when I need to talk
  - 3 I have someone to confide in or talk to about myself or my problems
  - 4 I have someone with whom to share my most private worries and fears
  - 5 I have someone who understands my problems
  - 6 I feel close to my friends
  - 7 I get emotional support from my family
  - 8 I have someone who makes me feel needed
  - 9 I have someone who makes me feel appreciated
  - 10 I have someone I trust to talk with about my feelings
  - 11 I have people who care about what happens to me
  - 12 I get love and affection
  - 13 I have someone to talk with when I have a bad day
  - 14 I have someone I trust to talk with about my problems
  - 15 I feel there are people who really understand me
  - 16 There are people I can talk to

- Informational support:
  - 1 Other people help me get information when I have a problem
  - 2 I have someone to turn to for suggestions about how to deal with a problem
  - 3 I can get helpful advice from others when dealing with a problem
  - 4 I can turn to people who know how to solve problems like mine
  - 5 My friends have useful information when I have problems to solve
  - 6 My family has useful information when I have problems to solve
  - 7 I get useful advice about important things in life
  - 8 I have someone to talk with about money matters
  - 9 I have someone to give me information if I need it
  - 10 I have someone to give me good advice about a crisis if I need it

- Instrumental support:
  - 1 Do you have someone to take over all of your responsibilities at home if you need it?
  - 2 Do you have someone to help you clean up around the home if you need it?
  - 3 Could you get a friend or family member to help move furniture around your home if you need it?

- – 4 Do you have someone to prepare your meals if you are unable to do it yourself?
- – 5 Do you have someone to help with your daily chores if you are sick?
- – 6 Do you have someone to run errands if you need it?
- – 7 Do you have someone to help you if you are confined to bed?
- – 8 Do you have someone to pick up a prescription if you need it?
- – 9 Do you have someone to take you to the doctor if you need it?
- – 10 Is someone available to help you if you need it?
- – 11 Do you have someone to bring you to an appointment if you need it?

- ○ Social isolation:

  - – 1 People get the wrong idea about my situation
  - – 2 I feel isolated even when I am not alone
  - – 3 I feel that people avoid talking to me
  - – 4 I feel detached from other people
  - – 5 I feel that some of my friends avoid me
  - – 6 I feel that some of my family members avoid me
  - – 7 I feel that I am alone in my interests and ideas
  - – 8 I feel that people barely know me
  - – 9 I feel like a stranger to those around me
  - – 10 I find that friends or relatives have difficulty talking with me about my health
  - – 11 I feel that people are around me but not with me
  - – 12 I feel isolated from others
  - – 13 I feel left out
  - – 14 I feel that I am no longer close to anyone

- ○ Positive affect:

  - – 1 In the past 7 days: I felt cheerful.
  - – 2 In the past 7 days: I felt proud.
  - – 3 In the past 7 days: I felt lively.
  - – 4 In the past 7 days: I felt at ease.
  - – 5 In the past 7 days: I felt enthusiastic.
  - – 6 In the past 7 days: I felt determined.
  - – 7 In the past 7 days: I felt interested.
  - – 8 In the past 7 days: I felt confident.
  - – 9 In the past 7 days: I felt able to concentrate.

- 10 In the past 7 days: I was thinking creatively.
- 11 In the past 7 days: I liked myself.
- 12 In the past 7 days: I felt attentive.
- 13 In the past 7 days: My future looked good.
- 14 In the past 7 days: I smiled and laughed a lot.
- 15 In the past 7 days: I felt peaceful.
- 16 In the past 7 days: I was able to reach down deep into myself for comfort.
- 17 In the past 7 days: I felt a sense of harmony within myself.
- 18 In the past 7 days: I generally enjoyed the things I did.
- 19 In the past 7 days: I felt lighthearted.
- 20 In the past 7 days: I felt satisfied.
- 21 In the past 7 days: I felt good-natured.
- 22 In the past 7 days: I felt useful.
- 23 In the past 7 days: I felt relaxed.
- 24 In the past 7 days: I felt optimistic.
- 25 In the past 7 days: I felt interested in other people.
- 26 In the past 7 days: I felt understood.
- 27 In the past 7 days: I felt grateful.
- 28 In the past 7 days: I felt content.
- 29 In the past 7 days: I felt delighted.
- 30 In the past 7 days: I felt inspired.
- 31 In the past 7 days: I felt fearless.
- 32 In the past 7 days: I felt happy.
- 33 In the past 7 days: I felt joyful.
- 34 In the past 7 days: I felt excited.

○ Anger:

- 1 In the past 7 days: When I was frustrated, I let it show
- 2 In the past 7 days: I was irritated more than people knew
- 3 In the past 7 days: I felt envious of others
- 4 In the past 7 days: I disagreed with people
- 5 In the past 7 days: I felt angry
- 6 In the past 7 days: When I was mad at someone, I gave them the silent treatment
- 7 In the past 7 days: I felt like breaking things

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- – 8 In the past 7 days: I felt like I was ready to explode
- – 9 In the past 7 days: When I was angry, I sulked
- – 10 In the past 7 days: I felt resentful when I didn't get my way
- – 11 In the past 7 days: I felt guilty about my anger
- – 12 In the past 7 days: I felt bitter about things
- – 13 In the past 7 days: I felt that people were trying to anger me
- – 14 In the past 7 days: I held grudges towards others
- – 15 In the past 7 days: I was grouchy
- – 16 In the past 7 days: I was stubborn with others
- – 17 In the past 7 days: I felt annoyed
- – 18 In the past 7 days: I had a bad temper
- – 19 In the past 7 days: I had trouble controlling my temper
- – 20 In the past 7 days: I felt like I needed help for my anger
- – 21 In the past 7 days: I felt like yelling at someone
- – 22 In the past 7 days: Just being around people irritated me

○ Fatigue:

- – 1 In the past 7 days: To what degree did you have to push yourself to get things done because of your fatigue?
- – 2 In the past 7 days: To what degree did your fatigue make you feel slowed down in your thinking?
- – 3 In the past 7 days: How often did you have to push yourself to get things done because of your fatigue?
- – 4 In the past 7 days: How often did your fatigue interfere with your social activities?
- – 5 In the past 7 days: How often were you less effective at work due to your fatigue (include work at home)?
- – 6 In the past 7 days: How often did your fatigue make you feel slowed down in your thinking?
- – 7 In the past 7 days: How often were you too tired to watch television?
- – 8 In the past 7 days: How often did your fatigue make it difficult to plan activities ahead of time?
- – 9 In the past 7 days: How often did your fatigue make it difficult to start anything new?
- – 10 In the past 7 days: How often did your fatigue make you more forgetful?
- – 11 In the past 7 days: How often were you too tired to do errands?

– 12 In the past 7 days: How often did your fatigue make it difficult to organize your thoughts when doing things at work (include work at home)?

– 13 In the past 7 days: How often did your fatigue interfere with your ability to engage in recreational activities?

– 14 In the past 7 days: How often did you have trouble finishing things because of your fatigue?

– 15 In the past 7 days: How often did your fatigue make it difficult to make decisions?

– 16 In the past 7 days: How often did you have to limit your social activities because of your fatigue?

– 17 In the past 7 days: How often were you too tired to do your household chores?

– 18 In the past 7 days: How often did your fatigue make you feel less alert?

– 19 In the past 7 days: How often were you too tired to take a bath or shower?

– 20 In the past 7 days: How often did your fatigue make it difficult to organize your thoughts when doing things at home?

– 21 In the past 7 days: How often did you have trouble starting things because of your fatigue?

– 22 In the past 7 days: How often was it an effort to carry on a conversation because of your fatigue?

– 23 In the past 7 days: How often were you too tired to socialize with your family?

– 24 In the past 7 days: To what degree did you have trouble starting things because of your fatigue?

– 25 In the past 7 days: How hard was it for you to carry on a conversation because of your fatigue?

– 26 In the past 7 days: How often were you too tired to leave the house?

– 27 In the past 7 days: How often were you too tired to think clearly?

– 28 In the past 7 days: How often did your fatigue limit you at work (include work at home)?

– 29 In the past 7 days: To what degree did you have to limit your social activities because of your fatigue?

– 30 In the past 7 days: To what degree did your fatigue make it difficult to organize your thoughts when doing things at home?

– 31 In the past 7 days: To what degree did your fatigue make it difficult to start anything new?

– 32 In the past 7 days: Due to your fatigue were you less effective at work (include work at home)?

– 33 In the past 7 days: To what degree did your fatigue make it difficult to make decisions?

- 34 In the past 7 days: How often did you have enough energy to exercise strenuously?
- 35 In the past 7 days: How often were you less effective at home due to your fatigue?
- 36 In the past 7 days: To what degree did your fatigue make it difficult to organize your thoughts when doing things at work (include work at home)?
- 37 In the past 7 days: To what degree did your fatigue make you more forgetful?
- 38 In the past 7 days: To what degree did your fatigue interfere with your ability to engage in recreational activities?
- 39 In the past 7 days: To what degree did you have to force yourself to get up and do things because of your fatigue?
- 40 In the past 7 days: To what degree did your fatigue interfere with your social activities?
- 41 In the past 7 days: To what degree did your fatigue interfere with your physical functioning?
- 42 In the past 7 days: Did fatigue make you less effective at home?
- 43 In the past 7 days: To what degree did you have trouble finishing things because of your fatigue?
- 44 In the past 7 days: To what degree did your fatigue make you feel less alert?
- 45 In the past 7 days: How often were you too tired to take a short walk?
- 46 In the past 7 days: How often did you have to force yourself to get up and do things because of your fatigue?
- 47 In the past 7 days: How often were you too tired to socialize with your friends?
- 48 In the past 7 days: How often did you feel run-down?
- 49 In the past 7 days: How often did you experience extreme exhaustion?
- 50 In the past 7 days: How often did you feel tired even when you hadn't done anything?
- 51 In the past 7 days: How often did you feel your fatigue was beyond your control?
- 52 In the past 7 days: To what degree did you feel tired even when you hadn't done anything?
- 53 In the past 7 days: How bushed were you on average?
- 54 In the past 7 days: How often were you sluggish?
- 55 In the past 7 days: How often did you run out of energy?
- 56 In the past 7 days: How often were you physically drained?
- 57 In the past 7 days: How often did you feel tired?
- 58 In the past 7 days: How fatigued were you when your fatigue was at its worst?

- 59 In the past 7 days: How often were you bothered by your fatigue?
- 60 In the past 7 days: How often did you have enough energy to enjoy the things you do for fun?
- 61 In the past 7 days: How often were you too tired to enjoy life?
- 62 In the past 7 days: How often were you too tired to feel happy?
- 63 In the past 7 days: How often did you feel totally drained?
- 64 In the past 7 days: How often were you energetic?
- 65 In the past 7 days: How tired did you feel on average?
- 66 In the past 7 days: How much were you bothered by your fatigue on average?
- 67 In the past 7 days: How exhausted were you on average?
- 68 In the past 7 days: How fatigued were you on the day you felt most fatigued?
- 69 In the past 7 days: How fatigued were you on average?
- 70 In the past 7 days: How run-down did you feel on average?
- 71 In the past 7 days: How much mental energy did you have on average?
- 72 In the past 7 days: How physically drained were you on average?
- 73 In the past 7 days: How energetic were you on average?
- 74 In the past 7 days: How sluggish were you on average?
- 75 In the past 7 days: On how many days was your fatigue worse in the morning?
- 76 In the past 7 days: How often did you find yourself getting tired easily?
- 77 In the past 7 days: How often did you think about your fatigue?
- 78 In the past 7 days: How fatigued were you on the day you felt least fatigued?
- 79 In the past 7 days: How easily did you find yourself getting tired on average?
- 80 In the past 7 days: How wiped out were you on average?
- 81 In the past 7 days: How often did you have physical energy?
- 82 In the past 7 days: What was the level of your fatigue on most days?
- 83 During the past 7 days: I feel fatigued
- 84 During the past 7 days: I feel weak all over
- 85 During the past 7 days: I feel listless ("washed out")
- 86 During the past 7 days: I feel tired
- 87 During the past 7 days: I have trouble starting things because I am tired
- 88 During the past 7 days: I have trouble finishing things because I am tired
- 89 During the past 7 days: I need to sleep during the day
- 90 During the past 7 days: I am too tired to eat
- 91 During the past 7 days: I need help doing my usual activities

- – 92 During the past 7 days: I am frustrated by being too tired to do the things I want to do
- – 93 During the past 7 days: I have to limit my social activity because I am tired
- – 94 During the past 7 days: I have energy
- – 95 During the past 7 days: I am able to do my usual activities

- ○ Sleep disturbance:

  - – 1 In the past 7 days: My sleep was restful.
  - – 2 In the past 7 days: My sleep was deep.
  - – 3 In the past 7 days: I was satisfied with my sleep.
  - – 4 In the past 7 days: My sleep was refreshing.
  - – 5 In the past 7 days: My sleep quality was. . .
  - – 6 In the past 7 days: I got enough sleep.
  - – 7 In the past 7 days: It was easy for me to fall asleep.
  - – 8 In the past 7 days: I laid in bed for hours waiting to fall asleep.
  - – 9 In the past 7 days: I woke up too early and could not fall back asleep.
  - – 10 In the past 7 days: I had trouble staying asleep.
  - – 11 In the past 7 days: I had trouble sleeping.
  - – 12 In the past 7 days: I woke up and had trouble falling back to sleep.
  - – 13 In the past 7 days: My sleep was light.
  - – 14 In the past 7 days: My sleep was restless.
  - – 15 In the past 7 days: I felt lousy when I woke up.
  - – 16 In the past 7 days: I had a problem with my sleep.
  - – 17 In the past 7 days: I had difficulty falling asleep.
  - – 18 In the past 7 days: I felt physically tense at bedtime.
  - – 19 In the past 7 days: I worried about not being able to fall asleep.
  - – 20 In the past 7 days: I felt worried at bedtime.
  - – 21 In the past 7 days: I had trouble stopping my thoughts at bedtime.
  - – 22 In the past 7 days: I felt sad at bedtime.
  - – 23 In the past 7 days: I had trouble getting into a comfortable position to sleep.
  - – 24 In the past 7 days: I tried hard to get to sleep.
  - – 25 In the past 7 days: Stress disturbed my sleep.
  - – 26 In the past 7 days: I tossed and turned at night.
  - – 27 In the past 7 days: I was afraid I would not get back to sleep after waking up.

- ○ Cognitive functioning:

- 1 In the past 7 days: I have had trouble forming thoughts
- 2 In the past 7 days: My thinking has been slow
- 3 In the past 7 days: My thinking has been foggy
- 4 In the past 7 days: I have had trouble adding or subtracting numbers in my head
- 5 In the past 7 days: I have made mistakes when writing down phone numbers
- 6 In the past 7 days: I have had trouble concentrating
- 7 In the past 7 days: I have had trouble finding my way to a familiar place
- 8 In the past 7 days: I have had trouble remembering where I put things, like my keys or my wallet
- 9 In the past 7 days: I have had trouble remembering whether I did things I was supposed to do, like taking a medicine or buying something I needed
- 10 In the past 7 days: I have had trouble remembering new information, like phone numbers or simple instructions
- 11 In the past 7 days: I have had trouble recalling the name of an object while talking to someone
- 12 In the past 7 days: I have had trouble speaking fluently
- 13 In the past 7 days: I have walked into a room and forgotten what I meant to get or do there
- 14 In the past 7 days: I have needed medical instructions repeated because I could not keep them straight
- 15 In the past 7 days: I have had to work really hard to pay attention or I would make a mistake
- 16 In the past 7 days: I have forgotten names of people soon after being introduced
- 17 In the past 7 days: My reactions in everyday situations have been slow
- 18 In the past 7 days: Other people have told me I seemed to have trouble remembering information
- 19 In the past 7 days: It has seemed like my brain was not working as well as usual
- 20 In the past 7 days: I have had to work harder than usual to keep track of what I was doing
- 21 In the past 7 days: My thinking has been slower than usual
- 22 In the past 7 days: I have had to work harder than usual to express myself clearly
- 23 In the past 7 days: I have had to use written lists more often than usual so I would not forget things

- 24 In the past 7 days: I have had trouble keeping track of what I was doing when interrupted
- 25 In the past 7 days: I have had trouble shifting back and forth between different activities that require thinking
- 26 In the past 7 days: I have hidden my problems with memory, concentration, or making mental mistakes so that others would not notice
- 27 In the past 7 days: I have been upset about my problems with memory, concentration, or making mental mistakes
- 28 In the past 7 days: My problems with memory, concentration, or making mental mistakes have interfered with my ability to work
- 29 In the past 7 days: My problems with memory, concentration, or making mental mistakes have interfered with my ability to do things I enjoy
- 30 In the past 7 days: My problems with memory, concentration, or making mental mistakes have interfered with the quality of my life
- 31 In the past 7 days: I have had difficulty multi-tasking
- 32 In the past 7 days: I have had more problems conversing with others

*/

intro1 (intro in section Base)
This survey asks about how you have been feeling lately, and about how life has been going.

For technical reasons, there will be no "Back" buttons on the screens. For each question, please select your answer and click "Next" to continue.

Start of section **Meaning**

/* CAT asking meaning and purpose questions. */

End of section **Meaning**

Start of section **Emotional**

/* CAT asking emotional support questions. */

End of section **Emotional**

Start of section **Informational**

/* CAT asking informational support questions. */

End of section **Informational**

Start of section **Instrumental**

/* CAT asking instrumental support questions. */

End of section **Instrumental**

Start of section **Social**

/* CAT asking social isolation questions. */

End of section **Social**

transition (intro in section Base)
Now, we would like to know how you felt over the past 7 days.

Start of section **Positive**

/* CAT asking positive affect questions. */

End of section **Positive**

Start of section **Anger**

/* CAT asking anger questions. */

End of section **Anger**

Start of section **Fatigue**

/* CAT asking fatigue questions. */

End of section **Fatigue**

Start of section **Sleep**

/* CAT asking sleep disturbance questions. */

End of section **Sleep**

Start of section **Cognitive**

/* CAT asking cognitive functioning questions. */

End of section **Cognitive**

Start of section **Closing**

CS_001 (HOW PLEASANT INTERVIEW in section Closing)
Could you tell us how interesting or uninteresting you found the questions in this survey?
1 Very interesting
2 Interesting
3 Neither interesting nor uninteresting
4 Uninteresting
5 Very uninteresting

CS_003 (comments in section Closing)
Do you have any other comments on the survey? Please type these in the box below. (If you have no comments, please click next to complete this survey.)
STRING

End of section **Closing**

/* Please note that although question CS_003 is listed in the routing, the answers are not included in the microdata in the event identifiable information is captured. Cleaned responses are available by request. */