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Harmonized HRS COVID Documentation

VERSION B (2020-2022), MAY 2023

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Preface

The Health and Retirement Study (HRS) is a nationally representative longitudinal survey of more than 42,000 individuals over age 50 in the United States. Its remarkable success has resulted in a number of surveys around the world being designed to be comparable with the HRS.

In order to make the data more accessible to researchers and to facilitate such comparisons, we, the USC Gateway to Global Aging Data team, created the Harmonized HRS COVID, a user-friendly version of a subset of the HRS COVID-19 interviews. The Harmonized HRS COVID initiative is part of a larger set of projects. With funding and support from the National Institute on Aging, we have also created Harmonized HRS and Harmonized HRS End of Life (United States); Harmonized MHAS, Harmonized MHAS End of Life, and Harmonized Mex-Cog (Mexico); Harmonized ELSA, Harmonized ELSA End of Life, Harmonized ELSA Life History, Harmonized ELSA-HCAP, and Harmonized ELSA COVID (England); Harmonized SHARE, Harmonized SHARE End of Life, Harmonized SHARE Life History, and Harmonized SHARE COVID (Europe + Israel); Harmonized CRELES (Costa Rica); Harmonized KLoSA and Harmonized KLoSA End of Life (South Korea); Harmonized JSTAR and Harmonized JSTAR End of Life (Japan); Harmonized TILDA (Ireland); Harmonized CHARLS, Harmonized CHARLS End of Life, and Harmonized CHARLS Life History (China); Harmonized LASI and Harmonized LASI-DAD (India); and Harmonized MARS (Malaysia) data. Further information about the Harmonized core, end of life, life history, and HCAP data files with questionnaires and other metadata is available on our searchable website, https://g2aging.org. Further information about the Harmonized COVID data files with questionnaires and other metadata is available on our searchable COVID website, https://covid.g2aging.org/.

In creating the Harmonized data files, we have followed conventions of variable naming and data structure first developed by the RAND Center for the Study of Aging for the RAND HRS Longitudinal File, which contains many variables derived from the HRS core data. The Harmonized HRS data file was built to supplement and to be used in conjunction with the RAND HRS Longitudinal File and includes additional harmonized measures that have not been incorporated into the RAND HRS Longitudinal File, as well as variables that facilitate cross-country analyses. The Harmonized HRS COVID is a separate data product focusing on a subset of data from the HRS COVID-19 interviews. It includes variables with a similar naming convention that mimics the RAND HRS, the Harmonized HRS, and other Harmonized COVID variables. This document describes these data.

Note, however, that HRS license agreements do not allow us to disseminate the data directly. Instead, HRS distributes the Harmonized HRS COVID among its data files, which it makes available on their website at https://hrsdata.isr.umich.edu/data-products/contributed-projects. We also make available a Stata script ("do file") that generates these derived variables from the original HRS data files that the user must obtain from the HRS website at

https://hrsdata.isr.umich.edu/data-products/public-survey-data. Additional information about HRS can be obtained from HRS's website at https://hrs.isr.umich.edu/about.

We are grateful for the continuing support of and funding from NIA. We have greatly benefited from the discussions with and the suggestions from Dr. David Weir and the HRS team. We would also like to acknowledge our colleague, Codi Young, who worked on the previous version of the Harmonized HRS COVID.

Requested Acknowledgment

We ask all users of the Harmonized HRS COVID to please inform our team of any written analysis using data from the Harmonized HRS COVID or information from the Harmonized HRS COVID Codebook by sending an email to papers@g2aging.org. We also ask users to include the following acknowledgement in their written work:

"This analysis uses data or information from the Harmonized HRS COVID dataset and Codebook, Version B as of May 2023 developed by the Gateway to Global Aging Data. DOI: https://doi.org/10.34729/st8g-tg23. The development of the Harmonized HRS COVID was funded by the National Institute on Aging (R01 AG030153). For more information, please refer to https://g2aging.org."

HRS Version and Acknowledgment

This version incorporates the following HRS data, RAND data products, and Gateway data products:

- RAND HRS Longitudinal File 2020 v.1
- Harmonized HRS v.C.2
- Cross-Wave Tracker File (Early 2020 v3.0)
- 2020 RAND HRS Fat File v.2A
- 2020 HRS Core (Early v.2.0) – PR_MC
- 2021 HRS Perspectives on the Pandemic (Final v.2.0) – Spring (v.2.0)
- 2021 HRS Perspectives on the Pandemic (Final v.2.0) – Fall (v.1.0)

The HRS is supported by the NIA, supplemented by the Social Security Agency, and operated from the Institute for Social Research (ISR) at the University of Michigan. The RAND HRS data file is the result of cooperation between the NIA, SSA, ISR at the University of Michigan, and the RAND Center for the Study of Aging.

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What's New in Version B of the Harmonized HRS COVID?

Version B incorporates the latest released version of HRS and RAND HRS data and the Harmonized HRS. It contains 15,449 observations or rows. It is a Respondent-level file so each row represents a unique Respondent. It also adds many new variables and makes adjustments and corrections.

We have added the following variables to the file:

Demographics:

- We added **RrCSCPROXY** for Rounds 1 and 2, which indicates whether the respondent completed the self-completion questionnaire through a proxy.
- We added **INCR1F**, which indicates whether the respondent completed both the COVID module in the core interview and the self-completion questionnaire in Round 1, or just one of these.
- We added **INCR2T**, which indicates whether the respondent completed the spring or fall questionnaire in Round 2.
- We added person-level, household-level, and self-completion weights for Round 1: **RrCWTRESP, RrCWTHH**, and **RrCSCWTRESP**.

COVID-19:

- We added **RrCOVAB** for Round 2, which indicates the respondent's COVID-19 antibody test results.
- We added **RrCOVLSYMP** for Rounds 1 and 2, which indicates whether the respondent experienced long-term health problems related to a COVID-19 infection.
- We added **RrCOVLSYMPT** for Round 1, which indicates the type of long-term health problem(s) the respondent experienced related to a COVID-19 infection.
- We added **RrCOVERST** for Round 1, which indicates whether the respondent visited an emergency room due to COVID-19.
- We added **RrCOVERSTE** for Round 2, which indicates whether the respondent ever visited an emergency room due to COVID-19.
- We added **RrCOVHOSPE** for Round 2, which indicates whether the respondent was ever hospitalized due to COVID-19.
- We added **RrHHCOVDIAGE**, **HHrCOVDIAGE**, **ROCOVDIAGE**, **RrHOCOVDIAGE**, and **HHrHOCOVDIAGE** for Round 2, which indicate whether anyone inside or outside the respondent's household has ever been diagnosed with COVID-19.
- We added **RrOCOVDIEDE** for Round 2, which indicates whether the respondent has ever known anyone who has died from COVID-19.

Mitigation Behaviors:

- We added **RrCCONCIV** for Round 2, which indicates whether the respondent is more concerned about the COVID-19 illness severity or the COVID-19 vaccine side effects.

- We added **RrCCONCHLT**, **RrCCONCHLP**, and **RrCCONCFUT** for Rounds 1 and 2, which indicate the respondent's level of concern about their own health, being able to get help, and what will happen in the future due to the COVID-19 pandemic.

Health:

- We added **RrCDRINKCH** and **RrCSMOKECH** for Round 2, which indicate how the respondent's drinking and smoking frequency changed during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to the months before March 2020.

Healthcare:

- We added **RrCDLYPHYS**, **RrCDLYPHYSW**, **RrCDLYMENT**, and **RrCDLYMENTW** for Round 2, which indicate whether the respondent reports that delaying needed medical or dental care caused a new physical health problem, the worsening of an existing health problem, a new mental health problem, or the worsening of an existing mental health problem.
- We added **RrCEDOCTOR** for Round 2, which indicates whether the respondent had a doctor visit thorough electronic means since the beginning of the COVID-19 pandemic (since March 2020).
- We added **RrCEDOCFUT_H** for Round 2, which indicates the likelihood that the respondent will have a doctor visit thorough electronic means in the future.

Employment:

- We added **RrCJIHOMEP** for Round 2, which indicates the respondent preference in work location after the COVID-19 pandemic is over.
- We added **RrCJCONCW** and **RrCJCONGP** for Rounds 1 and 2, which indicate whether the respondent worked in close contact with their co-workers and the general public at their regular workplace during the COVID-19 pandemic.

Family, Social Contact, and Activities:

- We added **HrCLVWITH** for Rounds 1 and 2, which indicates the respondent's living arrangement.
- We added **RrCCECONCH**, **RrCGECONCH**, **RrRECONCH**, **RrCFECONCH**, **RrCNECONCH**, for Rounds 1 and 2, which indicate how the amount of electronic contact in the respondent's relationships changed during the COVID-19 pandemic compared to before the pandemic.
- We added **RrCCPCONCH**, **RrCGPCONCH**, **RrRPCONCH**, **RrCFPCONCH**, **RrCNPCONCH**, for Round 2, which indicate how the amount of in-person contact in the respondent's relationships changed during the COVID-19 pandemic compared to before the pandemic.
- We added **RrCACHSPR** for Rounds 1 and 2, which indicates how often the respondent has prayed, meditated, or did other spiritual activities at home during the COVID-19 pandemic compared to before the pandemic.

Psychosocial:

- In Round 2, we added variables indicating the respondent's experience with a major depressive episode since March 2020 using the CIDI.

- We added **RrCEXDSCRC** for Rounds 1 and 2, which indicates how often the respondent experienced discrimination in everyday life during the COVID-19 pandemic.
- For Rounds 1 and 2, we added variables indicating the respondent's affective experience during the last 30 days and first year of the pandemic (from March 2020 to March 2021), respectively, using PANAS-X.

We have made the following adjustments, improvements, and corrections to the data and documentation:

Demographics:

- We adjusted the definition of **INCR1** to assign a 1 value for a small number of individuals who did not complete the COVID module in the core interview but did complete COVID questions in the self-completion questionnaire.
- We adjusted **RrCIWMODE** and **RrCLANG_H** to take information from the tracker file rather than each round's interview.
- We adjusted several variables in this section to take information from the RAND HRS Longitudinal File rather than the tracker file or the round 1 interview to ensure cross-dataset consistency. The following table indicates the variables that have changed in the Harmonized HRS COVID and the variables we used from the RAND HRS Longitudinal File.

Harmonized HRS COVID Variable Names	**RAND HRS Variable Names**
H1CHHID	H15HHID
H1CHHIDC	H15HHIDC
S1CHHIDPN	S15HHIDPN
R1CMSTAT	R15MSTAT
S1CMSTAT	S15MSTAT
R1CIWY	R15IWENDY
R1CIWM	R15IWENDM
R1CAGEY	R15AGEY_E
RAGENDER	RAGENDER
R1CCENDIV	R15CENDIV
R1CNHMLIV	R15NHMLIV

Health:

- We removed the variables from this section that are now available in the RAND HRS Longitudinal File. The following table indicates the variables that have been removed from the Harmonized HRS COVID and their corresponding names in the RAND HRS Longitudinal File.

Old Variable Names	**RAND HRS Variable Names**
R1CSHLT	R15SHLT

R1CDRINK	R15DRINK
R1CSMOKEN	R15SMOKEN
R1CHIBPS	R15HIBPS
R1CDIABS	R15DIABS
R1CCANCRS	R15CANCRS
R1CLUNGS	R15LUNGS
R1CHEARTS	R15HEARTS
R1CSTROKS	R15STROKS
R1CARTHRS	R15ARTHRS
R1CALZHES	R15ALZHES
R1CDEMENS	R15DEMENS

Employment:

- We adjusted **RrCWORKBF** to assign a value of 1 rather than special missing value .m if the respondent reports that their work was not impacted and they had a missing report of working at Wave 14.
- We corrected **RrCJLOST, RrCJCHTIM, RrCJCHRSK**, and **RrCJCHHRD** to assign special missing value .w rather than 0 for some respondent who were not working before the pandemic.

Caregiving:

- We adjusted **RrCRCCHORE** and **RrCGCCHORE** to include whether the respondent received/provided help with chores from/to non-co-residing grandchildren. In the previous version, these reports were included in RrCROCHORE and RrCGOCHORE.
- We adjusted **RrCROCHORE** and **RrCGOCHORE** to include whether the respondent received/provided help with chores from/to non-co-residing parents. In the previous version, these reports were included in RrCRPCHORE and RrCGPCHORE.
- We removed **RrCRPCHORE** and **RrCGPCHORE** from the dataset, indicating whether the respondent received/provided help with chores from/to non-co-residing parents, as these reports are now included in RrCROCHORE and RrCGOCHORE.

Family, Social Contact, and Activities:

- We removed **H1CHHRES** from the dataset because it is now available in the RAND HRS Longitudinal File with the name H15HHRES.

Psychosocial:

- We changed the name of RrCSATLIFE in the previous version to **RrCSATLIFE_H** to further clarify the difference in scale used in comparison to comparable variables in other Harmonized datasets.
- We removed the variables from this section that are now available in the RAND HRS Longitudinal File. The following table indicates the variables that have been removed from the Harmonized HRS COVID and their corresponding names in the RAND HRS Longitudinal File.

Old Variable Names	RAND HRS Variable Names
R1CDEPRES	R15DEPRES
R1CEFFORT	R15EFFORT
R1CSLEEPR	R15SLEEPR
R1CWHAPPY	R15WHAPPY
R1CFLONE	R15FLONE
R1CFSAD	R15FSAD
R1CGOING	R15GOING
R1CENLIFE	R15ENLIFE
R1CCESD	R15CESD
R1CCESDM	R15CESDM

1. Introduction and Overview

This report documents the Harmonized HRS COVID data file, a streamlined collection of variables derived from the Health and Retirement Study (HRS) COVID-19 interviews. HRS is a panel survey of people over age 50 and their partners in the United States. Its main goal is to provide panel data that enables research and analysis in support of policies on retirement, health insurance, saving, and economic well-being. The survey elicits information about demographics, income, assets, health, cognition, family structure and connections, health care use and costs, housing, job status and history, expectations, and insurance.

The HRS is primarily supported by the National Institute of Aging (NIA), with additional funding from the Social Security Administration (SSA) and is administered by the Institute for Social Research (ISR) at the University of Michigan. The products released by the Gateway to Global Aging Data are supported by the NIA.

The HRS is comprised of seven separate cohorts, summarized below:

Cohort	Year Born	Year of First Interview	Years of Subsequent Interviews
Initial HRS	1931-1941	1992	1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020
AHEAD	Before 1924	1993	1995, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020
Child of Depression (CODA)	1924-1930	1998	2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020
War Baby (WB)	1942-1947	1998	2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020
Early Baby Boomer (EBB)	1948-1953	2004	2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020
Mid Baby Boomer (MBB)	1954-1959	2010	2012, 2014, 2016, 2018, 2020
Late Baby Boomer (LBB)	1960-1965	2016	2018, 2020

The first wave of the HRS was conducted between April 1992 and March 1993 and included the initial HRS cohort. The first AHEAD wave, which was originally part of a separate study (The Study of Assets and Health Dynamics Among the Oldest Old), was conducted between October 1993 and June 1994. The second wave of the HRS was conducted between April 1994 and December 1994. Like the RAND HRS, we treat the 1993 AHEAD sample and the 1994 HRS sample as part of the second wave of the HRS. The second AHEAD wave was conducted between November 1995 and June 1996. The third wave of the HRS was conducted between May 1996 and February 1997. Like the RAND HRS, we treat the 1995 AHEAD sample and the 1996 HRS sample as part of the third wave of the HRS. The fourth wave of the HRS was conducted between February 1998 and March 1999. It included the HRS and AHEAD cohorts and added the Children of Depression (CODA) cohort, and the War Baby (WB) cohort. The fifth

wave was conducted between February 2000 and January 2001. The sixth wave was conducted between April 2002 and March 2003. The fifth and sixth waves included the HRS cohort, AHEAD cohort, CODA cohort, and WB cohort. The seventh wave was conducted between March 2004 and February 2005. The seventh wave included the four previously mentioned cohorts and added the Early Baby Boomer (EBB) cohort. The eighth wave was conducted between March 2006 and February 2007. The ninth wave was conducted between February 2008 and February 2009. The eighth and ninth waves included the HRS cohort, AHEAD cohort, CODA cohort, WB cohort, and EBB cohort. The tenth wave was conducted between February 2010 and November 2011 and consisted of the five previously mentioned cohorts and added the Mid Baby Boomer (MBB) cohort. The eleventh wave was conducted between April 2012 and April 2013. The twelfth wave was conducted between March 2014 and April 2015. The eleventh and twelfth waves included individuals from the six previously mentioned cohorts. The thirteenth wave was conducted between April 2016 and April 2018. The thirteenth wave consisted of the six previously mentioned cohorts and added the Late Baby Boomer (LBB) cohort. The fourteenth wave was conducted between April 2018 and June 2019. The fifteenth wave was conducted between March 2020 and May 2021. The fourteenth and fifteenth waves included individuals from the seven previously mentioned cohorts. COVID-19 questions were added to the core interview and self-completion questionnaire of wave fifteen. The 2021 Perspectives on the Pandemic Mail Survey was divided into Spring and Fall questionnaires. The Spring questionnaire was collected between May 2021 and June 2022. The Fall questionnaire was collected between October 2021 and June 2022.

The data include any individual interviewed at least once. This includes individuals who were age-eligible (born in eligible years) at the time of their first interview, spouses or partners who were not age-eligible at baseline, and spouses or partners who married an age-eligible respondent between survey waves.

The HRS data contain several auxiliary files. RAND releases the RAND HRS Longitudinal data file, which combines information from the core interview data with information from the current Tracker, Region and Mobility, Master ID files, Cross-Wave Imputation of Cognitive Functioning Measures, and Cross-Wave Prospective Social Security Weath Measures of Pre-Retirees, as well as the RAND Family data file with includes select information from the core interview data. The Gateway to Global Aging Data releases the Harmonized HRS data file which is built using variables from the RAND Enhanced Fat Files, the RAND HRS Longitudinal data file, the RAND Family data file, as well as select HRS data files. The Harmonized HRS COVID data file is built using variables from the RAND Enhanced Fat Files, the RAND HRS Longitudinal data file, the Harmonized HRS data file, as well as select HRS data files. It does not include any data which is not public release.

Documentation of the HRS methodology can be found in *An Elementary Cookbook of Data Management using HRS Data with SPSS, SAS and Stata Examples* (2004), *Overview of HRS Public Data Files for Cross-sectional and Longitudinal Analysis* (2010), or *Cohort Profile: the Health and Retirement Study (HRS)*, International Journal of Epidemiology 43(2):576-585 (2014). Documentation of the RAND HRS methodology can be found in *RAND HRS Longitudinal File*

2020 (V1) Documentation (2023), and documentation of the RAND HRS Family methodology can be found in *RAND HRS Family Data 2014 (V1) Documentation: Includes 1992-2014 (Final Release)* (2018). Documentation of the Harmonized HRS methodology can be found in *Harmonized HRS Documentation, Version C.2 (1992-2019)* (2023).

1.1. Gateway to Global Aging Data

The Health and Retirement Study (HRS) has achieved remarkable scientific success, as demonstrated by an impressive number of users, research studies, and publications using it. Its success has generated substantial interest in collecting similar data as population aging has progressed in every region of the world.

The result has been a number of surveys designed to be comparable with the HRS: the Mexican Health & Aging Survey (MHAS), the English Longitudinal Study of Ageing (ELSA), the Survey of Health, Ageing and Retirement in Europe (SHARE), the Costa Rican Longevity and Healthy Aging Study (CRELES), the Korean Longitudinal Study of Aging (KLoSA), the Japanese Study on Aging and Retirement (JSTAR), the Irish Longitudinal Study on Ageing (TILDA), the China Health and Retirement Longitudinal Study (CHARLS), the Brazilian Longitudinal Study of Ageing (ELSI), the Northern Ireland Cohort Longitudinal Study of Ageing (NICOLA), the Chilean Social Protection Survey (SPS), the Malaysia Ageing and Retirement Survey (MARS), and the Longitudinal Aging Study in India (LASI). The overview of this family of surveys, including their research designs, samples, and key domains can be found in Lee, Phillips, and Wilkens (2019).

As these surveys were designed with harmonization as a goal, they provide remarkable opportunities for cross-country studies. The value of comparative analyses, especially the opportunities they offer for learning lessons resulting from policies adopted elsewhere, is widely recognized. Yet there are only a limited number of empirical studies exploiting such opportunities. This is partly due to the difficulty associated with learning multiple surveys and the policies and institutions of each country.

Identifying comparable questions across surveys is the first step toward cross-country analyses. The Gateway to Global Aging Data (Gateway) helps users understand and use these large-scale population surveys on health and retirement. The Gateway includes several tools to facilitate cross-national health and retirement research. It includes a digital library of survey questions for all participating surveys. Its search engine enables users to find relevant survey questions. The Gateway also includes a concordance with information comparing measures within and across surveys over time. Using these tools, researchers can identify all questions related to particular key words or within a domain. The Gateway also includes population and sub-population estimates for key harmonized variables and presents them in graphs and tables that can be downloaded.

The Gateway can be accessed at https://g2aging.org. For more information about using the Gateway visit the Help page. For more information about obtaining the Harmonized HRS COVID, see “Chapter 3. Distribution and Technical Notes”.

1.2. Units of Observation

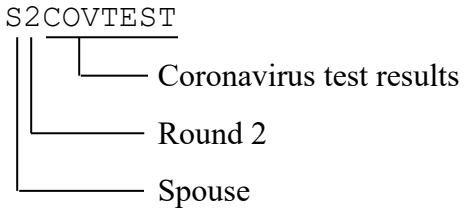
We distinguish between three units of observation: individual, couple, and household. A “couple" in this sense means a single individual, or individual with their spouse, whatever applicable. In the HRS, an age-eligible individual is sampled and then this individual and their spouse or partner are interviewed, but no other household members, even if they are age-eligible. Thus, in the HRS, there is usually no distinction between a “couple” and a “household”. More precisely, “household” variables in the HRS (and the RAND HRS) are actually “couple” variables. We do not include non-respondents in our files.

1.3. Data File Structure

The Harmonized HRS COVID data are contained in a single file, which includes the first two rounds of the HRS COVID-19 interviews. The data are stored in a “fat format” where each observation represents one respondent. The unit of observation is the individual. Each individual is uniquely identified by the unique identifier *hhidpn*. Household are identified by *hhid*. This file may be merged with other HRS data using *hhidpn*.

1.4. Variable Naming Convention

With few exceptions, variable names in the Harmonized HRS COVID data follow a consistent pattern. The first character indicates whether the variable refers to the reference person (“R”), spouse (“S”), the couple (“H”), or the household (“HH”). The second character indicates the round to which the variable pertains: “1”, “2”, or “A”. The “A” indicates “all”, i.e., the variable is not specific to any single wave. An example is RAGENDER, the gender of the respondent. The remaining characters describe the concept that the variable captures. For example:



Variable S2COVTEST captures the coronavirus test results of the spouse of the reference person as of Round 2. The name of the variable does not indicate who provided the information. For example, the spouse’s coronavirus test results may have been reported by the spouse themselves, or it may have been reported by the reference person as a proxy.

In the test below, we may refer to the variables such as SrCOVTEST for example, without specifying the round. The reference points at the group of variables S1COVTEST and S2COVTEST.

Variable labels also follow a consistent pattern. The first characters denote the name of the variable, followed by a colon. Then follows the round to which the variable pertains (r1, r2). The remainder of the label describes the concept that the variable captures. For example, the variable label of S2COVTEST is:

```
S2COVTEST:R2 COVID: S CORONAVIRUS TEST RESULTS
```

It may seem duplicative to include the name of the variable in the variable label. However, statistical packages often suppress the variable name and instead use its label in the presentation of results.

1.5. Missing Values and Nonresponse

Variables may contain missing values for several reasons. Stata, SAS, and SPSS offer the capability to distinguish multiple types of missing values, and we have attempted to record as much information as possible. Generally, the codes adhere to the classification in Table 1.

Table 1. Missing Codes

Code	Reason for missing
.	Reference person did not respond to this round
.d	Don't know
.r	Refused
.u	Reference person is not married (for spouse variables)
.v	Spouse did not respond to wave (for spouse variables)
.z	Reference person did not respond to Wave 15 (for spouse variables)
.m	Other missing

The coding scheme varies across variables. Consult the Data Codebook for details on individual variables.

1.6. Weighting an Accounting for Survey Design

The Harmonized HRS COVID includes weights released for the core Wave 15 in the Tracker file, pertaining to Round 1 of data collection. Person-level, household-level, and self-completion weights are only included for the subset of individuals who completed either the COVID module of the core interview or the self-completion questionnaire in that wave, and thus are considered to have participated in Round 1. For further information on the weights accounting for the survey's design, please see, *Health and Retirement Study, 2020 Tracker, Early, Version 3.0, April 2023: Data Description and Usage* (2023).

1.7. Specifics of the COVID-19 Interview

Due to the coronavirus pandemic, the HRS added COVID-19-related questions to the 2020 core interview and to the psychosocial self-administered questionnaire. Later, the HRS sent the 2021

Perspectives on the Pandemic Mail Survey to assess the experience of respondents during the first year of the pandemic, with one collection period starting in the Spring and the other starting in the Fall. These questions elicited information about coronavirus testing, coronavirus avoidance behavior, health, healthcare utlization, employment, income and spending, and social networks.

The COVID-19 module of HRS 2020 was administered to the 50% random sample of households who were originally assigned to enhanced face-to-face interviewing (EFTF). Due to the restrictions on social contact during the fieldwork period, EFTF interviews were conducted via telephone. The EFTF subsample was further split into two random subsamples. EFTF Release 1 was released to fieldwork on June 11, 2020. At the same time, HRS added the COVID-19 module questions to the core telephone interview that was administered both to the EFTF sample and to respondents in the telephone sample. EFTF Release 2 was released to fieldwork on September 24, 2020. Thus, the COVID-19 module data are available for the random half sample that was assigned to EFTF plus the nonrandom group of respondents who were assigned to telephone interviewing and completed those interviewes in June 2020 or later. The COVID-19 module was not administered to web respondents. EFTF respondents were also sent the psychosocial self-administered questionnaire in the mail following their core interview.

The 2021 Perspectives on the Pandemic Mail Survey was sent to a subsample of respondents divided into three groups. Group 1 included respondents who were not assigned to EFTF interviewing during the 2020 core interview, and had completed their assigned mode of interview without complication. Group 2 included respondents who were assigned to participate in both EFTF interviewing during the 2020 core interview and in the 2021 Consumption and Activities Mail Survey (CAMS). Group 3 included respondents who were assigned to participate in EFTF interviewing during the 2020 core interview but were not part of the 2021 CAMS sample. Groups 1 and 2 received the Spring version of the questionnaire that was fielded between May 2021 and June 2022. Group 3 received the Fall version of the questionnaire that was fielded between October 2021 and June 2022.

1.8. Merging the COVID Data with Core Wave Data

The Harmonized HRS COVID dataset can be easily merged with HRS study data, the RAND HRS, or the Harmonized HRS, using the unique HRS id variable, *hhidpn*, or through the combined use of *hhid* and *pn*. Here we provide an example of Stata code to correctly merge the Harmonized HRS dataset with the Harmonized HRS COVID dataset.

```
use "filepath\H_HRS_COVID_b.dta"

merge 1:1 hhidpn using "filepath\H_HRS_c2.dta"
```

Here we provide an example of Stata code to correctly merge select variables from the Harmonized HRS COVID dataset with select variables from the Harmonized HRS dataset.

```
use variable1 variable2 variable3 using "filepath\H_HRS_COVID_b.dta"

merge 1:1 hhidpn using "filepath\H_HRS_c2.dta", keepusing(variable1
variable2 variable3)
```

In both cases, the same method can be used to merge the RAND HRS and most of the original HRS study data if the name of the dataset is changed.

2. Structure of Codebook

The Data Codebook contains the codebook documenting all variables in the Harmonized HRS COVID data. This section explains how to interpret the codebook entries. The figure below shows a typical codebook page; the numbers in circles correspond to comments below.

Self-Report of COVID-19 (1)

Round	Variable	Label	Type
1	R1SRCOV	r1srcov:r1 COVID: r self-report of COVID	Categ
2	R2SRCOV	r2srcov:r2 COVID: r self-report of COVID	Categ
1	S1SRCOV	s1srcov:r1 COVID: s self-report of COVID	Categ
2	S2SRCOV	s2srcov:r2 COVID: s self-report of COVID	Categ

(2) (3) (4)

(5) **Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SRCOV	10245	0.14	0.60	0.00	3.00
R2SRCOV	11319	0.46	1.02	0.00	3.00
S1SRCOV	4871	0.14	0.61	0.00	3.00
S2SRCOV	5563	0.48	1.04	0.00	3.00

(6) **Categorical Variable Codes**

Value	R1SRCOV	R2SRCOV
.d:DK	93	
.m:Missing	9	251
.r:Refuse	5	
0.No	9719	9248
1.Probably no	63	288
2.Probably yes	63	423
3.Yes	400	1360

Value	S1SRCOV	S2SRCOV
.d:DK	38	
.m:Missing	3	89
.r:Refuse	2	
.u:Unmar	4277	3974
.v:Sp NR	1161	1137
.z:Not in wave 15		807
0.No	4610	4510
1.Probably no	35	140
2.Probably yes	28	217
3.Yes	198	696

(7) **How Constructed**

RrSRCOV indicates the respondent's self-reported status regarding whether they had COVID-19 at the time of the interview or have ever had COVID-19. The respondent is asked whether they had or currently have COVID-19. RrSRCOV is coded as 0 if the respondent reports they have not had COVID. RrSRCOV is coded as 1 if the respondent reports they have probably not had COVID. RrSRCOV is coded as 2 if the respondent reports they have probably had COVID. RrSRCOV is coded as 3 if the respondent reports they have had COVID. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrSRCOV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrSRCOV indicates the respondent's spouse's self-reported status regarding whether they had COVID-19 at the time of the interview or have ever had COVID-19. SrSRCOV is taken from the spouse's values to RrSRCOV. In addition to the special missing values used in

```
RrSRCOV, SrSRCOV employs two additional special missing values. Special missing value
(.u) is assigned if the respondent does not report being coupled in the current round.
Special missing value (.v) is assigned if the respondent reports being coupled in the
current round but their spouse is not interviewed. At Round 2, special missing value (.z)
is assigned if the respondent did not participate in the HRS core interview at Wave 15,
so the identity of their spouse is unable to be determined.
```

8 → **Cross Round Differences in HRS**

```
No differences known.
```

9 → **Comparability with the RAND HRS/Harmonized HRS**

```
No comparable variables are available in the RAND HRS or the Harmonized HRS.
```

10 → **HRS Variables Used:**

```
Round 1:
    RCOVW551          have you had covid
Round 2 COVID-19:
    A1_21S            EVER HAVE COVID-19
```

---

1 *Title*: The variables are documented in groups according to the concept that they measure. The title is often followed by a short description of the concept that is captured.

2 *Variable Names*: This entry shows the names of variables in the group.

3 *Variable Labels*: This entry shows the Stata variable labels. As discussed above, the labels typically include the name of the variable, the file on which it is present, and a description of its contents.

4 *Variable Type*: This entry indicates the type of variable. It may be continuous (Cont), categorical (Categ), or character (Char).

5 *Descriptive Statistics*: This entry shows descriptive statistics on each variable. They include the number of non-missing values, the mean, standard deviation, minimum value, and maximum value.

6 *Categorical Value Codes*: This entry shows the value label codes. These are only relevant for categorical variables. The first character(s) of the value labels indicate the value to which each label has been assigned. For example, value "1" is mapped into "1.Yes" (not just "Yes"). The entry also indicates which labels are assigned to which variables and shows frequency tabulations of all categorical variables.

7 *How Constructed*: This entry provides background on the manner in which variables were constructed.

8 *Cross Round Differences in HRS:* This entry briefly describes differences in question wording or contents between interview rounds.

9 *Comparability with the RAND HRS/Harmonized HRS*: This entry describes whether the RAND HRS or Harmonized HRS includes a variable that is comparable to the Harmonized HRS COVID version of the variable.

10 *HRS Variables Used*: This entry provides the names and labels of raw HRS variables that were used to construct the new variables.

3. Distribution and Technical Notes

The Harmonized HRS COVID data file is distributed through the Health and Retirement Study (HRS) website along with the original HRS data, the RAND HRS data, and the Harmonized HRS data. The Harmonized HRS COVID data file is made available free of charge but only to users who register with the HRS and agree to the standard conditions. For more information on obtaining access to the HRS data, visit: https://hrs.isr.umich.edu/data-products.

The Harmonized HRS COVID data file is distributed in Stata, SAS, and SPSS dataset formats.

This is version ***B*** of the Harmonized HRS COVID Data.

A copy of this Harmonized HRS COVID Codebook can be obtained on the Gateway to Global Aging Data (https://covid.g2aging.org/) under the Downloads tab.

DOI: https://doi.org/10.34729/st8g-tg23

4. Data Codebook

Section A: Demographics, Identifiers, and Weights

Person Specific Identifier

Round	Variable	Label	Type
A	HHIDPN	hhidpn:hhold id + person number /num	Cont
A	HHID	hhid:hhold id (char)	Char
A	PN	pn:person number (char)	Char

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HHIDPN	15449	406940623.83	274360060.72	10003030.00	959738010.00

How Constructed:

Person specific identifier, household identifier, and person number are based on the RAND HRS Longitudinal File 2020 v.1 dataset.

HHIDPN is the numeric version of the combined household and person identifier (HHID + PN) that uniquely identifies every respondent.

HHID is the 6-character HRS household identifier.

PN is the 3-character person number.

For more detailed information about how these variables are created, please refer to RAND HRS Data files webpage: https://www.rand.org/well-being/social-and-behavioral-policy/centers/aging/dataprod/hrs-data.html, or "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

No differences known.

Comparability with the RAND HRS/Harmonized HRS

HHIDPN: This variable is comparable to HHIDPN in the RAND HRS and the Harmonized HRS.

HHID: The variable is comparable to HHID in the RAND HRS and the Harmonized HRS.

PN: The variable is comparable to PN in the RAND HRS and the Harmonized HRS.

HRS Variables Used:

RAND HRS:

HHID	hhid: hhold id / 6-char
HHIDPN	hhidpn: hhold id + person number /num
PN	person number (char)

Household Identifier

Round	Variable	Label	Type
1	H1CHHID	h1chhid:r1 COVID: hhold id + subhhold /num	Cont
2	H2CHHID	h2chhid:r2 COVID: hhold id + subhhold /num	Cont
1	H1CHHIDC	h1chhidc:r1 COVID: hhold id + subhhold (char)	Char
2	H2CHHIDC	h2chhidc:r2 COVID: hhold id + subhhold (char)	Char

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CHHID	10352	4197466.80	2743106.50	100500.00	9597380.00
H2CHHID	10763	3921032.62	2742701.57	100030.00	9597380.00

How Constructed:

Sub-household specific identifier is based on the variable H15HHIDC in the RAND HRS Longitudinal File 2020 v.1 dataset.

HrCHHID is the numeric version of the combined household and sub-household identifier that uniquely identifies every sub-household at the current COVID round. HrCHHID is coded as plain missing (.) if the respondent did not participate in the current COVID round.

HrCHHIDC is the character version of the combined household and sub-household identifier that uniquely identifies every sub-household at the current COVID round. HrCHHIDC is coded as plain missing ("") if the respondent did not participate in the current COVID round.

Cross Round Differences in HRS

Unlike Round 1, the HRS does not provide a sub-household identifier variable in the COVID Round 2 dataset.

Comparability with the RAND HRS/Harmonized HRS

RrCHHID: This variable is comparable to HwHHID in the RAND HRS.

RrCHHIDC: This variable is comparable to HwHHIDC in the RAND HRS.

HRS Variables Used:

RAND HRS:

H15HHIDC	h15hhidc:w15 hhold id + subhhold /7-char

Spouse Identifier

Round	Variable	Label	Type
1	S1CHHIDPN	s1chhidpn:r1 COVID: spouse hhidpn /num	Cont
2	S2CHHIDPN	s2chhidpn:r2 COVID: spouse hhidpn /num	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
S1CHHIDPN	10352	208209012.15	283579891.99	0.00	920639020.00
S2CHHIDPN	10763	211763372.35	277327265.74	0.00	920736020.00

How Constructed:

The respondent's spouse's person-specific identifier is based on the variable S15HHIDPN in the RAND HRS Longitudinal File 2020 v.1 dataset.

SrCHHIDPN is the HHIDPN of the respondent’s spouse at the current COVID round. SrCHHIDPN is coded as 0 if the respondent participated in the current round but their spouse did not participate. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined. SrCHHIDPN is coded as plain missing (.) if the respondent did not participate in the current COVID round.

For more detailed information about how these variables are created, please refer to the "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

Unlike Round 1, the HRS does not provide a sub-household identifier variable in the COVID Round 2 dataset.

Comparability with the RAND HRS/Harmonized HRS

SrCHHIDPN: This variable is comparable to SwHHIDPN in the RAND HRS.

HRS Variables Used:

RAND HRS:
S15HHIDPN s15hhidpn:w15 spouse hhidpn

Round Status: Response Indicator

Round	Variable	Label	Type
1	INCR1	incr1:in COVID round 1	Categ
2	INCR2	incr2:in COVID round 2	Categ
1	INCR1SC	incr1sc:in COVID round 1 self-completion questionnaire	Categ
1	INCR1F	incr1f:in COVID round 1 flag	Categ
2	INCR2T	incr2t:in COVID round 2 type	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
INCR1	15449	0.67	0.47	0.00	1.00
INCR2	15449	0.75	0.43	0.00	1.00
INCR1SC	10352	0.45	0.50	0.00	1.00
INCR1F	15449	1.04	0.84	0.00	3.00
INCR2T	15449	0.96	0.68	0.00	2.00

Categorical Variable Codes

Value	INCR1	INCR2
0.No	5097	3879
1.Yes	10352	11570

Value	INCR1SC
0.No	5682
1.Yes	4670

Value	INCR1F
0.Not in R1	5097
1.Core and SCQ	4661
2.Core only	5682
3.SCQ only	9

Value	INCR2T
0.Not in R2	3879
1.Spring	8360
2.Fall	3210

How Constructed:

INCRr indicates whether the respondent participated in the current COVID round. INCRr is coded as 0 if the respondent did not participate in the round. INCRr is coded as 1 if the respondent participated in the round.

INCRrSC indicates whether the respondent participated in the current COVID round's self-completion questionnaire. INCRrSC is only available at Round 1. INCRrSC is coded as 0 if the respondent did not participate in the self-completion questionnaire but participated in the COVID round. Exclusion from the self-completion sample can be due to many factors, including not being eligible for the self-completion questionnaire and not returning the self-completion questionnaire to HRS. INCRrSC is coded as 1 if the respondent's self-completion questionnaire was received by HRS. INCRrSC is coded as plain missing (.) if the respondent did not participate in the current round.

INCR1F indicates whether the respondent completed the core COVID and self-completion questionnaires in the current COVID round or only one of the questionnaires. INCR1F is coded as 0 if the respondent did not

participate in Round 1. INCR1F is coded as 1 if the respondent completed both the COVID module in the core and the self-completion questionnaires in Round 1. INCR1F is coded as 2 if the respondent completed the COVID module in the core questionnaire but did not complete the self-completion questionnaire in Round 1. INCR1F is coded as 3 if the respondent completed the self-completion questionnaire but did not complete the COVID module in the core questionnaire in Round 1.

INCR2T indicates whether the respondent completed the Spring or Fall questionnaire in Round 2. INCR2T is coded as 0 if the respondent did not participate in Round 2. INCR2T is coded as 1 if the respondent completed the Spring questionnaire in Round 2, which was collected between May 2021 and June 2022. INCR2T is coded as 2 if the respondent completed the Fall questionnaire in Round 2, which was collected between October 2021 and June 2022.

Cross Round Differences in HRS

Round 1 was conducted by interview and a separate mailed self-completion questionnaire. Round 2 was conducted entirely by mailed self-completion questionnaire, divided into Spring and Fall groups.

Comparability with the RAND HRS/Harmonized HRS

INCRr: This variable is comparable to INWw in the RAND HRS.

INCRrSC: This variable is comparable to INWwSC in the Harmonized HRS.

HRS Variables Used:

Round 1 COVID-19:

RCOVW550	covid concern
RLBCOMP	mode completed leave behind qnaire

Weights

Round	Variable	Label	Type
1	R1CWTRESP	r1cwtresp:r1 COVID: r respondent level weight	Cont
1	S1CWTRESP	s1cwtresp:r1 COVID: s respondent level weight	Cont
1	R1CWTHH	r1cwthh:r1 COVID: r household level weight	Cont
1	R1CSCWTRESP	r1cscwtresp:r1 COVID: r respondent level self-completion wei	Cont
1	S1CSCWTRESP	s1cscwtresp:r1 COVID: s respondent level self-completion wei	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CWTRESP	10351	6050.22	6231.46	0.00	55348.00
S1CWTRESP	4913	6530.02	6579.36	0.00	52173.00
R1CWTHH	10351	5757.74	5497.80	0.00	28245.00
R1CSCWTRESP	6986	14092.65	18040.32	0.00	129142.00
S1CSCWTRESP	3579	16452.45	18987.04	0.00	129142.00

How Constructed:

RrCWTRESP is the person-level weights taken from the Tracker file for Wave 15, which includes Round 1 of the COVID interview. These person-level weights apply to those residing in the community, so have a zero value for those living in a nursing home. RrCWTRESP is assigned special missing value (.m) for those who participated in the current round but were not assigned a weight.

RrCWTHH is the household-level weights taken from the Tracker file for Wave 15, which includes Round 1 of the COVID interview. RrCWTHH is assigned special missing value (.m) for those who participated in the current round but were not assigned a weight.

While person-level and household-level weights are provided for all individuals who completed the Wave 15 core interview in the Tracker file, we only include weights for a subset of individuals who completed the COVID module in the core interview and/or the Wave 15 self-completion questionnaire which included questions pertaining to COVID.

RrCSCWTRESP is the person-level weights for the self-completion questionnaire taken from the Tracker file for Wave 15, which includes Round 1 of the COVID interview. RrCSCWTRESP is assigned special missing value (.m) for those who participated in the self-completion questionnaire of the current round but were not assigned a weight.

SrCWTRESP and RrCSCWTRESP are the person-level core and self-completion questionnaire weights for the respondent's spouse in the current round, and their values are taken from RrCWTRESP and RrCSCWTRESP. In addition to the special missing values used in RrCSCPROXY, SrCSCPROXY employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At the present time, weights have only been released for Round 1, which was conducted during the core Wave 15.

Comparability with the RAND HRS/Harmonized HRS

RrCWTRESP: This variable is comparable to RwWTRESP in the RAND HRS.

RrCWTHH: This variable is comparable to RwWTHH in the RAND HRS.

RrCSCWTRESP: This variable is comparable to RwSCWTRESP in the Harmonized HRS.

HRS Variables Used:

```
Tracker:
    RLBWGTR                     RESPONDENT WEIGHT FOR THE 2020 LEAVE BEHIND
    RWGTHH                      2020 WEIGHT: HOUSEHOLD LEVEL
    RWGTR                       2020 WEIGHT: RESPONDENT LEVEL
```

Interview Dates

Round	Variable	Label	Type
1	R1CIWY	r1ciwy:r1 COVID: r year of interview	Cont
1	S1CIWY	s1ciwy:r1 COVID: s year of interview	Cont
1	R1CIWM	r1ciwm:r1 COVID: r month of interview	Cont
1	S1CIWM	s1ciwm:r1 COVID: s month of interview	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CIWY	10352	2020.17	0.37	2020.00	2021.00
S1CIWY	4914	2020.15	0.36	2020.00	2021.00
R1CIWM	10352	7.54	3.03	1.00	12.00
S1CIWM	4914	7.65	2.98	1.00	12.00

How Constructed:

The respondent's interview year and month are based on the variables R15IWENDY and R15IWENDM, respectively, in the RAND HRS Longitudinal File 2020 v.1 dataset.

RrCIWY indicates the respondent's interview year. RrCIWY is only available at Round 1. RrCIWY is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCIWM indicates the respondent's interview month. RrCIWM is only available at Round 1. RrCIWM is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCIWY indicates the respondent's spouse's interview year. SrCIWM indicates the respondent's spouse's interview month. SrCIWY and SrCIWM are taken from the spouse's values to RrCIWY and RrCIWM, respectively. In addition to the special missing values used in RrCIWY and RrCIWM, SrCIWY and SrCIWM employ two addition special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

For more detailed information about how these variables are created, please refer to the "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

Unlike Round 1, the HRS does not provide interview date variables in the COVID Round 2 dataset.

Comparability with the RAND HRS/Harmonized HRS

RrCIWY: This variable is comparable to RwIWENDY in the RAND HRS, which also includes RwIWEND, indicating the ending date of the respondent's interview, and other related variables.

RrCIWM: This variable is comparable to RwIWENDM in the RAND HRS.

HRS Variables Used:

RAND HRS:
R15IWENDM r15iwendm:w15 interview end month

```
R15IWENDY                    r15iwendy:w15 interview end year
```

Age at Interview (In Years)

Round	Variable	Label	Type
1	R1CAGEY	r1cagey:r1 COVID: r age (years) at ivw	Cont
1	S1CAGEY	s1cagey:r1 COVID: s age (years) at ivw	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CAGEY	10352	67.77	11.00	28.00	104.00
S1CAGEY	4914	66.24	10.20	28.00	97.00

How Constructed:

The respondent's age in years at the end of the interview is based on the variable R15AGEY_E in the RAND HRS Longitudinal File 2020 v.1 dataset.

RrCAGEY indicates the respondent's age in years at the end of the interview. RrCAGEY is only available at Round 1. RrCAGEY is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCAGEY indicates the respondent's spouse's age in years at the end of the interview. SrCAGEY is taken from the spouse’s value to RrCAGEY. In addition to the special missing values used in RrCAGEY, SrCAGEY employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

For more detailed information about how these variables are created, please refer to the "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

Unlike Round 1, the HRS does not provide interview date variables in the COVID Round 2 dataset.

Comparability with the RAND HRS/Harmonized HRS

RrCAGEY: This variable is comparable to RwAGEY_E in the RAND HRS, which also includes RwAGEM_E, indicating the respondent's age in months at the end of the interview, and other related variables.

HRS Variables Used:

RAND HRS:
R15AGEY_E r15agey_e:w15 r age (years) at ivw endmon

Gender

Round	Variable	Label	Type
A	RAGENDER	ragender: r gender	Categ
1	S1CGENDER	s1cgender:r1 COVID: s gender	Categ
2	S2CGENDER	s2cgender:r2 COVID: s gender	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAGENDER	15391	1.59	0.49	1.00	2.00
S1CGENDER	4914	1.50	0.50	1.00	2.00
S2CGENDER	5652	1.50	0.50	1.00	2.00

Categorical Variable Codes

Value	RAGENDER
.m:Missing	58
1.Man	6248
2.Woman	9143

Value	S1CGENDER	S2CGENDER
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Man	2453	2825
2.Woman	2461	2827

How Constructed:

The respondent's gender is based on the RAND HRS Longitudinal File 2020 v.1 dataset.

RAGENDER indicates the respondent's gender. RAGENDER is coded as 1 for men. RAGENDER is coded as 2 for women.

SrCGENDER indicates the respondent's spouse's gender. SrCGENDER is taken from the spouse’s value to RAGENDER. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

For more detailed information about how these variables are created, please refer to the "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

No differences known.

Comparability with the RAND HRS/Harmonized HRS

RAGENDER: This variable is comparable to RAGENDER in the RAND HRS.

HRS Variables Used:

RAND HRS:
RAGENDER ragender: r gender

Current Marital Status: With Partnership

Round	Variable	Label	Type
1	R1CMSTAT	r1cmstat:r1 COVID: r marital status	Categ
2	R2CMSTAT	r2cmstat:r2 COVID: r marital status	Categ
1	S1CMSTAT	s1cmstat:r1 COVID: s marital status	Categ
2	S2CMSTAT	s2cmstat:r2 COVID: s marital status	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CMSTAT	10324	3.32	2.67	1.00	8.00
R2CMSTAT	10737	3.08	2.63	1.00	8.00
S1CMSTAT	4914	1.20	0.59	1.00	3.00
S2CMSTAT	5652	1.15	0.52	1.00	3.00

Categorical Variable Codes

Value	R1CMSTAT	R2CMSTAT
.m:Missing	28	833
1.Married	5331	6125
2.Married, spouse absent	87	68
3.Partnered	657	596
4.Separated	256	165
5.Divorced	1455	1387
7.Widowed	1815	1766
8.Never married	723	630

Value	S1CMSTAT	S2CMSTAT
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Married	4382	5214
2.Married, spouse absent	64	36
3.Partnered	468	402

How Constructed:

The respondent's and their spouse's marital status are based on the variables R15MSTAT and S15MSTAT, respectively, in the RAND HRS Longitudinal File 2020 v.1 dataset.

RrCMSTAT indicates the respondent's marital status with implied partnership status. Partnership status is implied and assigned to respondents who report being unmarried but who are coupled with another respondent through HRS's HHID. RrCMSTAT is coded as 1 if the respondent is married and their spouse is not living in an institution. RrCMSTAT is coded as 2 if the respondent is married and their spouse is living in an institution. RrCMSTAT is coded as 3 if the respondent is partnered. RrCMSTAT is coded as 4 if the respondent is separated. RrCMSTAT is coded as 5 if the respondent is divorced. RrCMSTAT is coded as 7 if the respondent is widowed. RrCMSTAT is coded as 8 if the respondent has never been married. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCMSTAT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCMSTAT indicates the respondent's spouse's marital status at the current COVID round with implied partnership status. SrCMSTAT is taken from the spouse’s value to RrCMSTAT. In addition to the special missing values used in RrCMSTAT, SrCMSTAT employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not

participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

For more detailed information about how these variables are created, please refer to the "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to report their marital status. The values from Round 2 are based on the values from the Wave 15 core interview/Round 1. There is a higher percentage of .m missings in the respondent variable and a special missing .z in the spouse variable when the respondent did not participate in the Wave 15 core interview.

Comparability with the RAND HRS/Harmonized HRS

RrCMSTAT: This variable is comparable to RwMSTAT in the RAND HRS, which also includes RwMSTATH, indicating the respondent's marital status without partnership status, and other related variables. Other variables related to the respondent's marital status are available in the Harmonized HRS.

HRS Variables Used:

```
RAND HRS:
    R15MSTAT                    r15mstat:w15 r marital status
    S15MSTAT                    s15mstat:w15 s marital status
```

Census Division

Round	Variable	Label	Type
1	R1CCENDIV	r1ccendiv:r1 COVID: r census division of residence	Categ
1	S1CCENDIV	s1ccendiv:r1 COVID: s census division of residence	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CCENDIV	10002	5.37	2.39	1.00	11.00
S1CCENDIV	4770	5.47	2.41	1.00	11.00

Categorical Variable Codes

Value	R1CCENDIV
.m:Missing	350
1.New England	329
2.Middle Atlantic	1083
3.East North Central	1337
4.West North Central	577
5.South Atlantic	2509
6.East South Central	700
7.West South Central	1195
8.Mountain	704
9.Pacific	1531
11.Foreign country	37

Value	S1CCENDIV
.m:Missing	144
.u:Unmar	4277
.v:SP NR	1161
1.New England	144
2.Middle Atlantic	473
3.East North Central	647
4.West North Central	286
5.South Atlantic	1164
6.East South Central	311
7.West South Central	564
8.Mountain	353
9.Pacific	813
11.Foreign country	15

How Constructed:

The United States Census Bureau division of the respondent's residence is based on the variable R15CENDIV in the RAND HRS Longitudinal File 2020 v.1 dataset.

RrCCENDIV indicates the United States Census Bureau division of the respondent's residence. RrCCENDIV is only available at Round 1. RrCCENDIV is coded as follows: 1.New England division, 2.Middle Atlantic division, 3.East North Central division, 4.West North Central division, 5.South Atlantic division, 6.East South Central division, 7.West South Central division, 8.Mountain division, 9.Pacific division, and 11.Foreign country. This scale is based on the United States Census Bureau divisions with the addition of foreign country.

RrCCENDIV is coded as 1 if the respondent reports their residence is located in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, or Vermont. RrCCENDIV is coded as 2 if the respondent reports their residence is located in New Jersey, New York, or Pennsylvania. RrCCENDIV is coded as 3 if the respondent reports their residence is located in Illinois, Indiana, Michigan, Ohio, or Wisconsin. RrCCENDIV is coded as 4 if the respondent reports their residence is located in Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, or South Dakota. RrCCENDIV is coded as 5 if the respondent reports

their residence is located in Delaware, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, Washington D.C., or West Virginia. RrCCENDIV is coded as 6 if the respondent reports their residence is located in Alabama, Kentucky, Mississippi, or Tennessee. RrCCENDIV is coded as 7 if the respondent reports their residence is located in Arkansas, Louisiana, Oklahoma, or Texas. RrCCENDIV is coded as 8 if the respondent reports their residence is located in Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, or Wyoming. RrCCENDIV is coded as 9 if the respondent reports their residence is located in Alaska, California, Hawaii, Oregon, or Washington. RrCCENDIV is coded as 11 if the respondent reports their residence is located in a foreign country or a United States territory. Missing responses are assigned as special missing value (.m). RrCCENDIV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCENDIV indicates the United States Census Bureau division of the respondent's spouse's residence at the time of the interview. SrCCENDIV is taken from the spouse’s value to RrCCENDIV. In addition to the special missing values used in RrCCENDIV, SrCCENDIV employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

For more detailed information about how these variables are created, please refer to the "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to report the location of their primary residence.

Comparability with the RAND HRS/Harmonized HRS

RrCCENDIV: This variable is comparable to RwCENDIV in the RAND HRS, which also includes RwCENREG, indicating the respondent's United States Census Bureau region of residence at the time of the interview.

HRS Variables Used:

RAND HRS:

R15CENDIV	r15cendiv:w15 census division

Interview Mode

Round	Variable	Label	Type
1	R1CIWMODE	r1ciwmode:r1 COVID: r interview mode	Categ
1	S1CIWMODE	s1ciwmode:r1 COVID: s interview mode	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CIWMODE	10351	2.00	0.04	1.00	3.00
S1CIWMODE	4913	2.00	0.03	1.00	3.00

Categorical Variable Codes

Value	R1CIWMODE
.m:Missing	1
1.Face to face	6
2.Telephone	10336
3.Web	9

Value	S1CIWMODE
.m:Missing	1
.u:Unmar	4277
.v:SP NR	1161
1.Face to face	2
2.Telephone	4908
3.Web	3

How Constructed:

RrCIWMODE indicates the mode of the respondent's interview. RrCIWMODE is only available at Round 1. RrCIWMODE is coded as 1 if the interview occurred face-to-face. RrCIWMODE is coded as 2 if the interview occurred via telephone. RrCIWMODE is coded as 3 if the interview occurred via the internet. These variables are based on information released in the HRS Tracker file. Missing responses are assigned special missing value (.m). RrCIWMODE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCIWMODE indicates the mode of the respondent's spouse's interview. SrCIWMODE is taken from the spouse's value to RrCIWMODE. In addition to the special missing values used in RrCIWMODE, SrCIWMODE employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Cross Round Differences in HRS

While Round 1 consisted of an interview, the mode of which is used to assign RrCIWMODE, and a mailed self-completion questionnaire, Round 2 was conducted entirely using a mailed self-completion questionnaire.

Comparability with the RAND HRS/Harmonized HRS

RrCIWMODE: This variable is comparable to RwIWMODE in the Harmonized HRS.

HRS Variables Used:

Tracker:
RIWMODE 2020 INVERVIEW MODE

Whether Proxy Interview: Self-Completion Questionnaire

Round	Variable	Label	Type
1	R1CSCPROXY	r1cscproxy:r1 COVID: r self-completion ques by proxy	Categ
2	R2CSCPROXY	r2cscproxy:r2 COVID: r self-completion ques by proxy	Categ
1	S1CSCPROXY	s1cscproxy:r1 COVID: s self-completion ques by proxy	Categ
2	S2CSCPROXY	s2cscproxy:r2 COVID: s self-completion ques by proxy	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CSCPROXY	4670	0.01	0.11	0.00	1.00
R2CSCPROXY	10586	0.05	0.21	0.00	1.00
S1CSCPROXY	2666	0.01	0.10	0.00	1.00
S2CSCPROXY	5207	0.05	0.23	0.00	1.00

Categorical Variable Codes

Value	R1CSCPROXY	R2CSCPROXY
.m:Missing		984
.s:No self-completion	5682	
0.No	4611	10074
1.Yes	59	512

Value	S1CSCPROXY	S2CSCPROXY
.m:Missing		445
.s:No self-completion	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	2637	4925
1.Yes	29	282

How Constructed:

In the COVID Round 1 data file, the HRS provides a variable (RLBCOMP) which indicates how the self-completion questionnaire was completed. The methods of completion include "completed; returned by mail", "completed by phone with interviewer", "completed by other than assigned r", and "not returned/not completed".

At Round 2, respondents are asked to report whether the questionnaire was completed by the person that the survey was addressed to, or whether someone else answered for that person. The respondent may report "yes, the questions were answered by the person to whom the questionnaire was addressed", "the questions were answered by that person's spouse or partner", "the questions were answered by the person's son or daughter", or "the questions were answered by someone else".

RrCSCPROXY indicates whether the self-completion questionnaire was completed by proxy. At Round 1, RrCSCPROXY is coded as 0 if the self-completion questionnaire was completed by the respondent and returned by mail, or if it was completed with the help of an interviewer by phone. At Round 2, RrCSCPROXY is coded as 0 if the self-completion questionnaire was completed by the respondent. RrCSCPROXY is coded as 1 if the self-completion questionnaire was completed by proxy. Special missing value (.s) is assigned if the self-completion questionnaire was not completed, or if the respondent was not eligible for the self-completion questionnaire. Special missing value (.m) is assigned if the response is otherwise missing. RrCSCPROXY is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCSCPROXY indicates whether the respondent's spouse's self-completion questionnaire was completed by proxy. SrCSCPROXY is taken from the spouse’s value to RrCSCPROXY. In addition to the special missing

values used in RrCSCPROXY, SrCSCPROXY employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

In the COVID Round 1 data file, the HRS provides a variable which indicates how the self-completion questionnaire was completed. At Round 2, respondents are asked to report whether the questionnaire was completed by the person that the survey was addressed to, or whether someone else answered for that person.

Comparability with the RAND HRS/Harmonized HRS

RrCSCPROXY: This variable is comparable to RwSCPROXY in the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLBCOMP                     mode completed leave behind qnaire
Round 2 COVID-19 Spring:
    H30_21S                     WHO ANSWERED QUESTIONNAIRE
Round 2 COVID-19 Fall:
    H30_21F                     WHO ANSWERED QUESTIONNAIRE
```

Language of Interview

Round	Variable	Label	Type
1	R1CLANG_H	r1clang_h:r1 COVID: r language of interview	Categ
2	R2CLANG_H	r2clang_h:r2 COVID: r language of interview	Categ
1	S1CLANG_H	s1clang_h:r1 COVID: s language of interview	Categ
2	S2CLANG_H	s2clang_h:r2 COVID: s language of interview	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CLANG_H	10351	1.11	0.31	1.00	2.00
R2CLANG_H	11570	1.07	0.26	1.00	2.00
S1CLANG_H	4913	1.13	0.34	1.00	2.00
S2CLANG_H	5652	1.08	0.27	1.00	2.00

Categorical Variable Codes

Value	R1CLANG_H	R2CLANG_H
.m:Missing	1	
1.English	9235	10757
2.Spanish	1116	813

Value	S1CLANG_H	S2CLANG_H
.m:Missing	1	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.English	4261	5197
2.Spanish	652	455

How Constructed:

RrCLANG_H indicates the language that the respondent's interview was conducted in. At Round 1, RrCLANG_H is based on information released in the HRS Tracker file. At Round 2, RrCLANG_H is based on information released in the COVID Round 2 dataset. RrCLANG_H is coded as 1 if the interview was completed in English. RrCLANG_H is coded as 2 if the interview was completed in Spanish. RrCLANG_H is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCLANG_H indicates the language that the respondent's spouse's interview was conducted in. SrCLANG_H is taken from the spouse’s value to RrCLANG_H. In addition to the special missing values used in RrCLANG_H, SrCLANG_H employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

No differences known.

Comparability with the RAND HRS/Harmonized HRS

RrCLANG_H: This variable is comparable to RwLANG_H in the Harmonized HRS.

HRS Variables Used:

```
Tracker:
    RIWLANG                     2020 INTERVIEW LANGUAGE
Round 2 COVID-19 Spring:
    LANGUAGE                    SURVEY LANGUAGE
Round 2 COVID-19 Fall:
    LANGUAGE                    SURVEY LANGUAGE
```

Interview in Institution

Round	Variable	Label	Type
1	R1CNHMLIV	r1cnhmliv:r1 COVID: r lives in institution at interview	Categ
1	S1CNHMLIV	s1cnhmliv:r1 COVID: s lives in institution at interview	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CNHMLIV	10352	0.02	0.14	0.00	1.00
S1CNHMLIV	4914	0.01	0.08	0.00	1.00

Categorical Variable Codes

Value	R1CNHMLIV
0.No	10149
1.Yes	203

Value	S1CNHMLIV
.u:Unmar	4277
.v:SP NR	1161
0.No	4881
1.Yes	33

How Constructed:

The respondent's institutionalization status is based on the variable R15NHMLIV in the RAND HRS Longitudinal File 2020 v.1 dataset.

RrCNHMLIV indicates whether the respondent lives in an institution at the time of the interview. RrCNHMLIV is only available at Round 1. RrCNHMLIV is coded as 0 if the respondent reports that they do not live in a nursing home or other long-term health care facility. RrCNHMLIV is coded as 1 if the respondent reports they live in a nursing home or other long-term health care facility. RrCNHMLIV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCNHMLIV indicates whether the respondent's spouse lives in an institution at the time of the interview. SrCNHMLIV is taken from the spouse’s value to RrCNHMLIV. In addition to the special missing values used in RrCNHMLIV, SrCNHMLIV employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

For more detailed information about how these variables are created, please refer to the "RAND HRS Longitudinal File 2020 (V1) Documentation" (2023).

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to report whether they are living in a nursing home or other long-term health care facility.

Comparability with the RAND HRS/Harmonized HRS

RrCNHMLIV: This variable is comparable to RwNHMLIV in the RAND HRS, which also includes RwNHMMVY, indicating the year in which the respondent moved into the nursing home or other health care facility, and other related variables.

HRS Variables Used:

```
RAND HRS:
    R15NHMLIV                   r15nhmliv:w15 live in nurs home at iview
```

Section B: COVID-19

Self-Report of COVID-19

Round	Variable	Label	Type
1	R1SRCOV	r1srcov:r1 COVID: r self-report of COVID	Categ
2	R2SRCOV	r2srcov:r2 COVID: r self-report of COVID	Categ
1	S1SRCOV	s1srcov:r1 COVID: s self-report of COVID	Categ
2	S2SRCOV	s2srcov:r2 COVID: s self-report of COVID	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SRCOV	10245	0.14	0.60	0.00	3.00
R2SRCOV	11319	0.46	1.02	0.00	3.00
S1SRCOV	4871	0.14	0.61	0.00	3.00
S2SRCOV	5563	0.48	1.04	0.00	3.00

Categorical Variable Codes

Value	R1SRCOV	R2SRCOV
.d:DK	93	
.m:Missing	9	251
.r:Refuse	5	
0.No	9719	9248
1.Probably no	63	288
2.Probably yes	63	423
3.Yes	400	1360

Value	S1SRCOV	S2SRCOV
.d:DK	38	
.m:Missing	3	89
.r:Refuse	2	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4610	4510
1.Probably no	35	140
2.Probably yes	28	217
3.Yes	198	696

How Constructed:

RrSRCOV indicates the respondent's self-reported status regarding whether they had COVID-19 at the time of the interview or have ever had COVID-19. The respondent is asked whether they had or currently have COVID-19. RrSRCOV is coded as 0 if the respondent reports they have not had COVID. RrSRCOV is coded as 1 if the respondent reports they have probably not had COVID. RrSRCOV is coded as 2 if the respondent reports they have probably had COVID. RrSRCOV is coded as 3 if the respondent reports they have had COVID. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrSRCOV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrSRCOV indicates the respondent's spouse's self-reported status regarding whether they had COVID-19 at the time of the interview or have ever had COVID-19. SrSRCOV is taken from the spouse's values to RrSRCOV. In addition to the special missing values used in RrSRCOV, SrSRCOV employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

No differences known.

Comparability with the RAND HRS/Harmonized HRS

No comparable variable is available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW551                    have you had covid
Round 2 COVID-19 Spring:
    A1_21S                      EVER HAVE COVID-19
Round 2 COVID-19 Fall:
    A1_21F                      EVER HAVE COVID-19
```

Coronavirus Test Results

Round	Variable	Label	Type
1	R1COVTEST	r1covtest:r1 COVID: r coronavirus test results	Categ
2	R2COVTEST	r2covtest:r2 COVID: r coronavirus test results	Categ
1	S1COVTEST	s1covtest:r1 COVID: s coronavirus test results	Categ
2	S2COVTEST	s2covtest:r2 COVID: s coronavirus test results	Categ
2	R2COVAB	r2covab:r2 COVID: r coronavirus antibody test results	Categ
2	S2COVAB	s2covab:r2 COVID: s coronavirus antibody test results	Categ
1	R1COVID	r1covid:r1 COVID: r ever diag with COVID	Categ
2	R2COVID	r2covid:r2 COVID: r ever diag with COVID	Categ
1	S1COVID	s1covid:r1 COVID: s ever diag with COVID	Categ
2	S2COVID	s2covid:r2 COVID: s ever diag with COVID	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVTEST	3423	0.16	0.49	0.00	3.00
R2COVTEST	6588	0.18	0.41	0.00	3.00
S1COVTEST	1535	0.18	0.54	0.00	3.00
S2COVTEST	3212	0.19	0.41	0.00	3.00
R2COVAB	2985	0.16	0.37	0.00	1.00
S2COVAB	1437	0.17	0.38	0.00	1.00
R1COVID	10309	0.04	0.19	0.00	1.00
R2COVID	11526	0.12	0.33	0.00	1.00
S1COVID	4901	0.04	0.19	0.00	1.00
S2COVID	5639	0.12	0.33	0.00	1.00

Categorical Variable Codes

Value	R1COVTEST	R2COVTEST
.d:DK	29	10
.m:Missing	9	62
.n:Not tested	6886	4910
.r:Refuse	5	
0.Negative	2998	5425
1.Positive	363	1140
3.Waiting for results	62	23

Value	S1COVTEST	S2COVTEST
.d:DK	9	
.m:Missing	3	20
.n:Not tested	3366	2420
.r:Refuse	1	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.Negative	1322	2620
1.Positive	178	584
3.Waiting for results	35	8

Value	R2COVAB

.d:DK	365
.m:Missing	183
.n:Not tested	8037
0.Negative	2495
1.Positive	490

Value	S2COVAB
.d:DK	146
.m:Missing	72
.n:Not tested	3997
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.Negative	1186
1.Positive	251

Value	R1COVID	R2COVID
.d:DK	29	5
.m:Missing	9	39
.r:Refuse	5	
0.No	9931	10103
1.Yes	378	1423

Value	S1COVID	S2COVID
.d:DK	9	
.m:Missing	3	13
.r:Refuse	1	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4719	4935
1.Yes	182	704

How Constructed:

At Round 1, respondents are asked whether they had or currently have COVID-19. Respondents are also asked whether they have been tested for COVID-19, and if so, how many tests they have had and if any of the test(s) indicated that they had the virus. If the respondent reports that they have had or probably have COVID-19 and they have not been tested for COVID-19, then they are asked to report whether a doctor or other health care provider told them they have COVID-19.

At Round 2, respondents are asked whether they had or currently have COVID-19. If the respondent reports that they have had or probably have COVID-19, then they are asked to report whether a doctor or other health care provider told them they have COVID-19. Respondents are also asked whether they have been tested for an active COVID-19 infection (using a viral test), and if so, how many tests they have had and if any of the test(s) indicated that they had the virus. Respondents are also asked whether they have been tested for COVID-19 antibodies.

COVID-19 viral tests (also called antigen tests) are used to determine if the tested individual has an active COVID-19 infection. COVID-19 antibody tests are used to determine if the tested individual has been infected with COVID-19 in the past.

RrCOVTEST indicates the respondent's COVID-19 test results at the current round. RrCOVTEST is coded as 0 if the respondent reports that they tested negative for COVID-19. RrCOVTEST is coded as 1 if the respondent reports that any of their COVID-19 tests were positive. RrCOVTEST is coded as 3 if the respondent reports that they have been tested for COVID-19, but they had not received the results at the time of the interview. Special missing value (.n) is assigned if the respondent reports that they have not been tested for COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVTEST is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVAB indicates the respondent's COVID-19 antibody test results at the current round. RrCOVAB is only available in Round 2. RrCOVAB is coded as 0 if the respondent reports that they tested negative for COVID-19 using an antibody test. RrCOVAB is coded as 1 if the respondent reports that any of their COVID-19 antibody tests were positive. Special missing value (.n) is assigned if the respondent reports that they have not been tested for COVID-19 using an antibody test. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVAB is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVID indicates whether the respondent has ever tested positive for COVID-19 or been diagnosed with COVID-19 by the current round. RrCOVID is coded as 0 if the respondent reports that they have not been tested for COVID-19 using either an antibody or viral test or if the respondent reports that they have been tested for COVID-19 using either test, but the tests were negative or awaiting results. RrCOVID is also coded as 0 if the respondent reports that a doctor or other health care provider did not tell them they have COVID. RrCOVID is coded as 1 if the respondent reports that any of their COVID-19 tests, either antibody or viral, were positive across rounds. RrCOVID is also coded as 1 if the respondent reports that a doctor or other health care provider told them they have COVID at any round. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVID is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCOVTEST indicates the respondent's spouse's COVID-19 test results at the current round. SrCOVID indicates whether the respondent's spouse has ever tested positive for COVID-19 or been diagnosed with COVID-19 by the current round. SrCOVTEST and SrCOVID are taken from the spouse's value to RrCOVTEST and RrCOVID, respectively. In addition to the special missing values used in RrCOVTEST and RrCOVID, SrCOVTEST and SrCOVID employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Round 1, respondents are asked to report whether they have been tested for COVID-19. At Round 2, respondents are asked to report whether they have been tested for an active COVID-19 infection (using a viral test). At Round 2, respondents are also asked to report whether they have been tested for COVID-19 antibodies. Unlike Round 2, Round 1 does not specify the types of COVID-19 test.

At Round 1, if the respondent reports that they have had or probably have COVID-19 and they have not been tested for COVID-19, then they are asked to report whether a doctor or health care provider told them they have COVID-19. At Round 2, if the respondent reports that they have had or probably have COVID-19, then they are asked to report whether a doctor or other health care provider told them they have COVID-19. Unlike Round 2, Round 1 does not ask this question to respondents who have been tested for COVID-19.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW552                    tested for covid
    RCOVW553                    test results
    RCOVW557                    doctor confirm covid
Round 2 COVID-19 Spring:
    A11_21S                     TEST POSITIVE COVID-19
    A2_21S                      DR./PROVIDER DIAGNOSED COVID-19
    A8_21S                      TESTED FOR ANTIBODIES
    A9_21S                      TESTED FOR ACTIVE COVID-19 INFECTION-VIRAL T
Round 2 COVID-19 Fall:
    A11_21F                     TEST POSITIVE COVID-19
    A2_21F                      DR./PROVIDER DIAGNOSED COVID-19
    A8_21F                      TESTED FOR ANTIBODIES
    A9_21F                      TESTED FOR ACTIVE COVID-19 INFECTION-VIRAL T
```

Long-Term COVID-19 Symptoms

Round	Variable	Label	Type
1	R1COVLSYMP	r1covlsymp:r1 COVID: r experienced long-term symptoms from C	Categ
2	R2COVLSYMP	r2covlsymp:r2 COVID: r experienced long-term symptoms from C	Categ
1	S1COVLSYMP	s1covlsymp:r1 COVID: s experienced long-term symptoms from C	Categ
2	S2COVLSYMP	s2covlsymp:r2 COVID: s experienced long-term symptoms from C	Categ
1	R1COVLSYMPT	r1covlsympt:r1 COVID: r type of long-term symptom from COVID	Categ
1	S1COVLSYMPT	s1covlsympt:r1 COVID: s type of long-term symptom from COVID	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVLSYMP	457	0.37	0.48	0.00	1.00
R2COVLSYMP	2231	0.10	0.30	0.00	1.00
S1COVLSYMP	222	0.32	0.47	0.00	1.00
S2COVLSYMP	1080	0.11	0.31	0.00	1.00
R1COVLSYMPT	169	1.92	0.98	1.00	3.00
S1COVLSYMPT	71	1.83	0.97	1.00	3.00

Categorical Variable Codes

Value	R1COVLSYMP	R2COVLSYMP
.c:Did not report having CO	9782	8417
.d:DK	6	285
.m:Missing	107	637
0.No	287	2000
1.Yes	170	231

Value	S1COVLSYMP	S2COVLSYMP
.c:Did not report having CO	4645	4160
.d:DK	4	133
.m:Missing	43	279
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	150	964
1.Yes	72	116

Value	R1COVLSYMPT
.c:Did not report having CO	9782
.d:DK	1
.l:No long-term symptoms	287
.m:Missing	113
1.Physical	88
2.Mental	6
3.Both	75

Value	S1COVLSYMPT
.c:Did not report having CO	4645
.d:DK	1
.l:No long-term symptoms	150
.m:Missing	47
.u:Unmar	4277
.v:SP NR	1161
1.Physical	40
2.Mental	3
3.Both	28

How Constructed:

Respondents are asked whether they had or currently have COVID-19. If the respondent reports that they had or probably have COVID-19, then they are asked whether they continue to experience health problems related to the COVID-19 infection.

RrCOVLSYMP indicates whether the respondent experienced long-term health problems related to COVID-19 infection. RrCOVLSYMP is coded as 0 if the respondent did not experience long-term health problems related to COVID-19 infection. RrCOVLSYMP is coded as 1 if the respondent experienced long-term health problems related to COVID-19 infection. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. At Round 2, RrCOVLSYMP is coded as special missing value (.d) if the respondent reports that they have health problems, but don't know if they are because of COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVLSYMP is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCOVLSYMP indicates whether the respondent's spouse experienced long-term health problems related to COVID-19 infection. SrCOVLSYMP is taken from the spouse's value to RrCOVLSYMP. In addition to the special missing values used in RrCOVLSYMP, SrCOVLSYMP employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

RrCOVLSYMPT indicates the type of long-term health problem(s) the respondent experienced related to COVID-19 infection. RrCOVLSYMPT is coded as 1 if the respondent experienced long-term physical health problems related to COVID-19 infection. RrCOVLSYMPT is coded as 2 if the respondent experienced long-term mental health problems related to COVID-19 infection. RrCOVLSYMPT is coded as 3 if the respondent experienced both long-term physical and mental health problems related to COVID-19 infection. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Special missing value (.l) is assigned if the respondent reported that they probably had or have COVID-19, but didn't report having long-term health problems related to COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVLSYMPT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCOVLSYMPT indicates the type of long-term health problem(s) the respondent's spouse experienced related to COVID-19 infection. SrCOVLSYMPT is taken from the spouse's value to RrCOVLSYMPT. In addition to the special missing values used in RrCOVLSYMPT, SrCOVLSYMPT employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Cross Round Differences in HRS

These questions are asked slightly different between rounds. Round 1 asks, "Have you experienced any lingering physical or mental health effects from the virus?", while Round 2 asks, "Do you continue to experience health problems related to coronavirus infection?" Despite the differences in wording, we believe these questions are comparable.

Unlike Round 1, Round 2 does not have a question for the type of long-term health problem(s) related to COVID-19 infection. For this reason, RrCOVLSYMPT and SrCOVLSYMPT are not available at Round 2.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

Round 1 COVID-19:

```
    RCOVW551                    have you had covid
    RCOVW565                    lingering symptoms
    RCOVW566                    phsyical or mental effects
Round 2 COVID-19 Spring:
    A1_21S                      EVER HAVE COVID-19
    B6_21S                      HAVE LINGERING COVID HEALTH ISSUES
Round 2 COVID-19 Fall:
    A1_21F                      EVER HAVE COVID-19
    B6_21F                      HAVE LINGERING COVID HEALTH ISSUES
```

Hospitalization for COVID-19

Round	Variable	Label	Type
1	R1COVERVST	r1covervst:r1 COVID: r ER visit for COVID	Categ
1	S1COVERVST	s1covervst:r1 COVID: s ER visit for COVID	Categ
2	R2COVERVSTE	r2covervste:r2 COVID: r ever had ER visit for COVID	Categ
2	S2COVERVSTE	s2covervste:r2 COVID: s ever had ER visit for COVID	Categ
1	R1COVHOSP	r1covhosp:r1 COVID: r hospitalized for COVID	Categ
1	S1COVHOSP	s1covhosp:r1 COVID: s hospitalized for COVID	Categ
2	R2COVHOSPE	r2covhospe:r2 COVID: r ever hospitalized for COVID	Categ
2	S2COVHOSPE	s2covhospe:r2 COVID: s ever hospitalized for COVID	Categ
1	R1COVHSPMO	r1covhspmo:r1 COVID: r month hospital admission	Cont
2	R2COVHSPMO	r2covhspmo:r2 COVID: r month hospital admission	Cont
1	S1COVHSPMO	s1covhspmo:r1 COVID: s month hospital admission	Cont
2	S2COVHSPMO	s2covhspmo:r2 COVID: s month hospital admission	Cont
1	R1COVHSPYR	r1covhspyr:r1 COVID: r year hospital admission	Cont
2	R2COVHSPYR	r2covhspyr:r2 COVID: r year hospital admission	Cont
1	S1COVHSPYR	s1covhspyr:r1 COVID: s year hospital admission	Cont
2	S2COVHSPYR	s2covhspyr:r2 COVID: s year hospital admission	Cont
1	R1COVHSPNIT	r1covhspnit:r1 COVID: r number nights in hospital	Cont
2	R2COVHSPNIT	r2covhspnit:r2 COVID: r number nights in hospital	Cont
1	S1COVHSPNIT	s1covhspnit:r1 COVID: s number nights in hospital	Cont
2	S2COVHSPNIT	s2covhspnit:r2 COVID: s number nights in hospital	Cont
1	R1COVHSPOX	r1covhspox:r1 COVID: r on oxygen in hospital	Categ
2	R2COVHSPOX	r2covhspox:r2 COVID: r on oxygen in hospital	Categ
1	S1COVHSPOX	s1covhspox:r1 COVID: s on oxygen in hospital	Categ
2	S2COVHSPOX	s2covhspox:r2 COVID: s on oxygen in hospital	Categ
1	R1COVHSPVEN	r1covhspven:r1 COVID: r on ventilator in hospital	Categ
2	R2COVHSPVEN	r2covhspven:r2 COVID: r on ventilator in hospital	Categ
1	S1COVHSPVEN	s1covhspven:r1 COVID: s on ventilator in hospital	Categ
2	S2COVHSPVEN	s2covhspven:r2 COVID: s on ventilator in hospital	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVERVST	462	0.24	0.43	0.00	1.00
S1COVERVST	225	0.22	0.42	0.00	1.00
R2COVERVSTE	1413	0.21	0.41	0.00	1.00
S2COVERVSTE	730	0.17	0.38	0.00	1.00

R1COVHOSP	463	0.15	0.36	0.00	1.00
S1COVHOSP	226	0.15	0.35	0.00	1.00
R2COVHOSPE	1374	0.13	0.34	0.00	1.00
S2COVHOSPE	709	0.11	0.31	0.00	1.00
R1COVHSPMO	69	6.39	2.98	1.00	12.00
R2COVHSPMO	184	6.62	3.74	1.00	12.00
S1COVHSPMO	33	6.79	2.69	1.00	12.00
S2COVHSPMO	75	6.84	3.62	1.00	12.00
R1COVHSPYR	69	2020.07	0.31	2019.00	2021.00
R2COVHSPYR	175	2020.45	0.50	2020.00	2021.00
S1COVHSPYR	33	2020.06	0.24	2020.00	2021.00
S2COVHSPYR	71	2020.41	0.50	2020.00	2021.00
R1COVHSPNIT	65	9.17	14.55	0.00	96.00
R2COVHSPNIT	194	8.77	17.58	0.00	200.00
S1COVHSPNIT	33	9.73	17.11	0.00	96.00
S2COVHSPNIT	77	8.51	13.92	0.00	90.00
R1COVHSPOX	68	0.54	0.50	0.00	1.00
R2COVHSPOX	185	0.69	0.47	0.00	1.00
S1COVHSPOX	32	0.63	0.49	0.00	1.00
S2COVHSPOX	76	0.71	0.46	0.00	1.00
R1COVHSPVEN	68	0.07	0.26	0.00	1.00
R2COVHSPVEN	181	0.13	0.34	0.00	1.00
S1COVHSPVEN	32	0.16	0.37	0.00	1.00
S2COVHSPVEN	73	0.08	0.28	0.00	1.00

Categorical Variable Codes

Value	R1COVERVST
.c:Did not report having CO	9782
.d:DK	1
.m:Missing	107
0.No	351
1.Yes	111

Value	S1COVERVST
.c:Did not report having CO	4645
.d:DK	1
.m:Missing	43
.u:Unmar	4277
.v:SP NR	1161
0.No	175
1.Yes	50

Value	R2COVERVSTE
.c:Did not report having CO	9508
.m:Missing	649
0.No	1120
1.Yes	293

Value	S2COVERVSTE
.c:Did not report having CO	4645
.m:Missing	277

.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.No	606
1.Yes	124

Value	R1COVHOSP
.c:Did not report having CO	9782
.d:DK	93
.m:Missing	9
.r:Refuse	5
0.No	394
1.Yes	69

Value	S1COVHOSP
.c:Did not report having CO	4645
.d:DK	38
.m:Missing	3
.r:Refuse	2
.u:Unmar	4277
.v:SP NR	1161
0.No	193
1.Yes	33

Value	R2COVHOSPE
.c:Did not report having CO	9523
.m:Missing	673
0.No	1189
1.Yes	185

Value	S2COVHOSPE
.c:Did not report having CO	4649
.m:Missing	294
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.No	632
1.Yes	77

Value	R1COVHSPOX	R2COVHSPOX
.c:Did not report having CO	9782	9518
.d:DK	94	
.m:Missing	9	684
.n:Not hospitalized	394	1183
.r:Refuse	5	
0.No	31	58
1.Yes	37	127

Value	S1COVHSPOX	S2COVHSPOX
.c:Did not report having CO	4645	4647
.d:DK	39	
.m:Missing	3	298
.n:Not hospitalized	193	631
.r:Refuse	2	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	12	22
1.Yes	20	54

Value	R1COVHSPVEN	R2COVHSPVEN
.c:Did not report having CO	9782	9517
.d:DK	94	
.m:Missing	9	687
.n:Not hospitalized	394	1185
.r:Refuse	5	
0.No	63	157
1.Yes	5	24

Value	S1COVHSPVEN	S2COVHSPVEN
.c:Did not report having CO	4645	4647
.d:DK	39	
.m:Missing	3	300
.n:Not hospitalized	193	632
.r:Refuse	2	
.u:Unmar	4277	3974

.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	27	67
1.Yes	5	6

How Constructed:

Respondents are asked whether they had or currently have COVID-19. If the respondent reports that they had or probably have COVID-19, then they are asked whether they went to an emergency room because of the virus. If the respondent reports that they had or probably have COVID-19, then they are asked whether they were admitted to a hospital because of the virus. If the respondent reports that they were admitted to a hospital because of the virus, then they are asked to report the date of the hospitalization. If the respondent reports that they were admitted to a hospital because of the virus, then they are asked to report the number of nights that they spent in the hospital. If the respondent reports that they were admitted to the hospital because of the virus, then they are asked whether they were on oxygen or a ventilator while they were in the hospital.

RrCOVERVST indicates whether the respondent visited an emergency room due to COVID-19. RrCOVERVSTE indicates whether the respondent ever visited an emergency room due to COVID-19. RrCOVERVST is only available at Round 1. RrCOVERVSTE is only available at Round 2. While the same question is asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. RrCOVERVST and RrCOVERVSTE are coded as 0 if the respondent reports that they did not go to an emergency room due to COVID-19. RrCOVERVST and RrCOVERVSTE are coded as 1 if the respondent reports that they went to an emergency room due to COVID-19. Reports of emergency room visits from Round 1 are carried forward to Round 2. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVERVST and RrCOVERVSTE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVHOSP indicates whether the respondent was hospitalized due to COVID-19. RrCOVHOSPE indicates whether the respondent was ever hospitalized due to COVID-19. RrCOVHOSP is only available at Round 1. RrCOVHOSPE is only available at Round 2. While the same question is asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. RrCOVHOSP and RrCOVHOSPE are coded as 0 if the respondent reports that they were not admitted to the hospital due to COVID-19. RrCOVHOSP and RrCOVHOSPE are coded as 1 if the respondent reports that they were admitted to the hospital due to COVID-19. Reports of hospitalizations from Round 1 are carried forward to Round 2. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVHOSP and RrCOVHOSPE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVHSPMO indicates the month when the respondent was hospitalized due to COVID-19. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Special missing value (.n) is assigned if the respondent was not asked this question because they reported that they were not admitted to the hospital due to COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVHSPMO is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVHSPYR indicates the year when the respondent was hospitalized due to COVID-19. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Special missing value (.n) is assigned if the respondent was not asked this question because they reported that they were not admitted to the hospital due to COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVHSPYR is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVHSPNIT indicates the number of nights that the respondent was hospitalized due to COVID-19. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Special missing value (.n) is assigned if the respondent was not asked this question because they reported that they were not admitted to the hospital due to COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m),

respectively. RrCOVHSPNIT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVHSPOX indicates whether the respondent was on oxygen while they were hospitalized due to COVID-19. RrCOVHSPOX is coded as 0 if the respondent reports that they were only on a ventilator while they were in the hospital due to COVID-19. RrCOVHSPOX is also coded as 0 if the respondent reports that they were neither on oxygen nor a ventilator while they were in the hospital due to COVID-19. RrCOVHSPOX is coded as 1 if the respondent reports that they were only on oxygen or on both oxygen and a ventilator while they were in the hospital due to COVID-19. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Special missing value (.n) is assigned if the respondent was not asked this question because they reported that they were not admitted to the hospital due to COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVHSPOX is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVHSPVEN indicates whether the respondent was on a ventilator while they were hospitalized due to COVID-19. RrCOVHSPVEN is coded as 0 if the respondent reports that they were only on oxygen while they were in the hospital due to COVID-19. RrCOVHSPVEN is also coded as 0 if the respondent reports that they were neither on oxygen nor a ventilator while they were in the hospital due to COVID-19. RrCOVHSPVEN is coded as 1 if the respondent reports that they were only on a ventilator or on both oxygen and a ventilator while they were in the hospital due to COVID-19. Special missing value (.c) is assigned if the respondent was not asked this question because they did not report having probably had or having had COVID-19. Special missing value (.n) is assigned if the respondent was not asked this question because they reported that they were not admitted to the hospital due to COVID-19. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVHSPVEN is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCOVERVST indicates whether the respondent's spouse visited an emergency room due to COVID-19. SrCOVERVSTE indicates whether the respondent's spouse ever visited an emergency room due to COVID-19. SrCOVHOSP indicates whether the respondent's spouse was hospitalized due to COVID-19. SrCOVHOSPE indicates whether the respondent's spouse was ever hospitalized due to COVID-19. SrCOVHSPMO indicates the month when the respondent's spouse was hospitalized due to COVID-19. SrCOVHSPYR indicates the year when the respondent's spouse was hospitalized due to COVID-19. SrCOVHSPNIT indicates the number of nights that the respondent's spouse was hospitalized due to COVID-19. SrCOVHSPOX indicates whether the respondent's spouse was on oxygen while they were hospitalized due to COVID-19. SrCOVHSPVEN indicates whether the respondent's spouse was on a ventilator while they were hospitalized due to COVID-19. SrCOVERVST, SrCOVERVSTE, SrCOVHOSP, SrCOVHOSPE, SrCOVHSPMO, SrCOVHSPYR, SrCOVHSPNIT, SrCOVHSPOX, and SrCOVHSPVEN are taken from the spouse's values to RrCOVERVST, RrCOVERVSTE, RrCOVHOSP, RrCOVHOSPE, RrCOVHSPMO, RrCOVHSPYR, RrCOVHSPNIT, RrCOVHSPOX, and RrCOVHSPVEN, respectively. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrCOVERVSTE, RrCOVHOSPE, RrCOVHSPMO, RrCOVHSPYR, RrCOVHSPNIT, RrCOVHSPOX, and RrCOVHSPVEN if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Please note that while the question text is the same for these questions between Rounds 1 and 2, the implied time frame of the start of the pandemic to the time of interview is sufficiently extended for Round 2 that we employed an adjusted variable naming between rounds for emergency room visits and hospitalizations.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

Round 1 COVID-19:

RCOVW551	have you had covid

```
    RCOVW558                    emergency room
    RCOVW559                    admitted to hospital
    RCOVW560                    hospital month
    RCOVW562                    hospital year
    RCOVW563                    nights in hospital
    RCOVW564                    on oxygen
Round 2 COVID-19 Spring:
    A1_21S                      EVER HAVE COVID-19
    B1_21S                      VISIT EMERGENCY ROOM COVID-19
    B2_21S                      ADMITTED TO HOSPITAL COVID-19
    B3_MONTH_21S                DATE ADMITTED-MONTH COVID-19
    B3_YEAR_21S                 DATE ADMITTED-YEAR COVID-19
    B4_21S                      NIGHTS IN HOSPITAL
    B5_21S                      RECEIVE OXYGEN/ON VENT IN HOSPITAL
Round 2 COVID-19 Fall:
    A1_21F                      EVER HAVE COVID-19
    B1_21F                      VISIT EMERGENCY ROOM COVID-19
    B2_21F                      ADMITTED TO HOSPITAL COVID-19
    B3_MONTH_21F                DATE ADMITTED-MONTH COVID-19
    B3_YEAR_21F                 DATE ADMITTED-YEAR COVID-19
    B4_21F                      NIGHTS IN HOSPITAL
    B5_21F                      RECEIVE OXYGEN/ON VENT IN HOSPITAL
```

COVID-19 Vaccine

Round	Variable	Label	Type
1	R1COVVAC	r1covvac:r1 COVID: r received coronavirus vaccine	Categ
2	R2COVVAC	r2covvac:r2 COVID: r received coronavirus vaccine	Categ
1	S1COVVAC	s1covvac:r1 COVID: s received coronavirus vaccine	Categ
2	S2COVVAC	s2covvac:r2 COVID: s received coronavirus vaccine	Categ
1	R1COVVACN	r1covvacn:r1 COVID: r number of coronavirus vaccines receive	Categ
2	R2COVVACN	r2covvacn:r2 COVID: r number of coronavirus vaccines receive	Categ
1	S1COVVACN	s1covvacn:r1 COVID: s number of coronavirus vaccines receive	Categ
2	S2COVVACN	s2covvacn:r2 COVID: s number of coronavirus vaccines receive	Categ
1	R1COVVACF_H	r1covvacf_h:r1 COVID: r likely to get coronavirus vaccine	Categ
2	R2COVVACF_H	r2covvacf_h:r2 COVID: r likely to get coronavirus vaccine	Categ
1	S1COVVACF_H	s1covvacf_h:r1 COVID: s likely to get coronavirus vaccine	Categ
2	S2COVVACF_H	s2covvacf_h:r2 COVID: s likely to get coronavirus vaccine	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVVAC	1133	0.35	0.48	0.00	1.00
R2COVVAC	11135	0.85	0.36	0.00	1.00
S1COVVAC	428	0.36	0.48	0.00	1.00
S2COVVAC	5443	0.88	0.32	0.00	1.00
R1COVVACN	1133	0.56	0.82	0.00	2.00
R2COVVACN	11135	1.64	0.73	0.00	2.00
S1COVVACN	428	0.57	0.81	0.00	2.00
S2COVVACN	5443	1.71	0.67	0.00	2.00
R1COVVACF_H	4660	2.98	1.13	1.00	4.00
R2COVVACF_H	2314	2.70	1.29	1.00	4.00
S1COVVACF_H	2225	3.08	1.07	1.00	4.00
S2COVVACF_H	970	2.66	1.31	1.00	4.00

Categorical Variable Codes

Value	R1COVVAC	R2COVVAC
.d:DK	10	
.i:Interviewed before quest	8635	
.m:Missing	410	435
.p:Proxy	162	
.r:Refuse	2	
0.No	732	1663
1.Yes	401	9472

Value	S1COVVAC	S2COVVAC
.d:DK	3	
.i:Interviewed before quest	4186	
.m:Missing	199	209
.p:Proxy	97	
.r:Refuse	1	
.u:Unmar	4277	3974
.v:SP NR	1161	1137

.z:Not in wave 15		807
0.No	274	646
1.Yes	154	4797

Value	R1COVVACF_H	R2COVVACF_H
.a:Received vaccine	401	5832
.d:DK	88	
.h:Have appointment for vac		17
.i:Interviewed before quest	4314	
.m:Missing	494	197
.p:Proxy	378	
.q:not asked		3210
.r:Refuse	17	
1.Not at all	817	669
2.Not very	561	364
3.Somewhat	1188	272
4.Very	2094	1009

Value	S1COVVACF_H	S2COVVACF_H
.a:Received vaccine	154	3064
.d:DK	33	
.h:Have appointment for vac		6
.i:Interviewed before quest	2089	
.m:Missing	202	90
.p:Proxy	207	
.q:not asked		1522
.r:Refuse	4	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	310	299
2.Not very	258	156
3.Somewhat	602	93
4.Very	1055	422

How Constructed:

At Round 1, respondents are asked whether they have received a COVID-19 vaccine. If the respondent reports that they have received a COVID-19 vaccine, they are asked if they have received one or two shots. If the respondent reports that they have not yet received a COVID-19 vaccine, then they are asked how likely they would be to get a vaccine when it becomes available to them.

At Round 2, respondents are asked whether they have received a COVID-19 vaccine. They respondent may report "yes, I've had two shots"; "yes, I've had one shot and am waiting for the second"; "yes, I've had one shot and don't need a second"; "I have an appointment to get one soon"; or "no". If the respondent reports that they have not yet received a COVID-19 vaccine, then they are asked how likely they would be to get a vaccine when it becomes available to them.

RrCOVVAC indicates whether the respondent has received a COVID-19 vaccine. RrCOVVAC is coded as 0 if the respondent reports that they have not received any COVID-19 vaccines. At Round 2, RrCOVVAC is also coded as 0 if the respondent reports they have made an appointment to get a COVID-19 vaccine. RrCOVVAC is coded as 1 if the respondent reports that they have received at least one COVID-19 vaccine. At Round 1, special missing value (.i) is assigned if the respondent was interviewed before this question was included in the questionnaire. At Round 1, special missing value (.p) is assigned if this question was skipped because the interview was by a proxy. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVVAC is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVVACN indicates the number of COVID-19 vaccines that the respondent has received. RrCOVVACN is coded as 0 if the respondent reports that they have not received any COVID-19 vaccines. At Round 2, RrCOVVACN is also coded as 0 if the respondent reports that they have made an appointment to get a COVID-19 vaccine. RrCOVVACN is coded as 1 if the respondent reports that they have received one COVID-19 vaccine. RrCOVVACN is coded as 2 if the respondent reports that they have received two COVID-19 vaccines. At Round 1, special missing value (.i) is assigned if the respondent was interviewed before this question was included in the questionnaire. At Round 1, special missing value (.p) is assigned if this question was skipped because the interview was by a proxy. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVVACN is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOVVACF_H indicates how likely the respondent is to get a COVID-19 vaccine. RrCOVVACF_H is coded as 1 if the respondent reports that they are not at all likely to get a COVID-19 vaccine. RrCOVVACF_H is coded as 2 if the respondent reports that they are not very likely to get a COVID-19 vaccine. RrCOVVACF_H is coded as 3 if the respondent reports that they are somewhat likely to get a COVID-19 vaccine. RrCOVVACF_H is coded as 4 if the respondent reports that they are very likely to get a COVID-19 vaccine. Special missing value (.a) is assigned if the respondent already received a COVID-19 vaccine. At Round 1, special missing value (.i) is assigned if the respondent was interviewed before this question was included in the questionnaire. At Round 1, special missing value (.p) is assigned if this question was skipped because the interview was by a proxy. At Round 2, special missing value (.h) is assigned if the respondent has scheduled an appointment to get a COVID-19 vaccine. This question is not asked in the Fall questionnaire for Round 2, so RrCOVVACF_H is assigned special missing .q in this round. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVVACF_H is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCOVVAC indicates whether the respondent's spouse has received a COVID-19 vaccine. SrCOVVACN indicates the number of COVID-19 vaccines that the respondent's spouse has received. SrCOVVACF_H indicates how likely the respondent's spouse is to get a COVID-19 vaccine. SrCOVVAC, SrCOVVACN, and SrCOVVACF_H are taken from the spouse's values to RrCOVVAC, RrCOVVACN, and RrCOVVACF_H, respectively. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Round 1, some respondents were interviewed before the COVID-19 vaccination questions were added to the questionnaire. As such, special missing value (.i) is assigned to respondents who were interviewed before these questions were added.

At Round 1, questions related to coronavirus vaccinations were not asked to proxy respondents. As such, special missing value (.p) is assigned if the interview was by proxy.

At Round 1, respondents are first asked whether they have received a vaccination for COVID-19, and if so, asked how many shots they have received. At Round 2, respondents are asked a single question about getting a vaccination, with answer choices specifying the number of shots they have received so far.

Respondents in the core interview at Round 1 and in the Spring questionnaire in Round 2 are asked about their likelihood of getting a COVID vaccination, but this question is not asked in the Fall questionnaire in Round 2.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RA009                       proxy/self interview
    RCOVW646                    likely to take covid vaccine
    RCOVW670                    received vaccine
    RCOVW671                    number of shots received
Round 2 COVID-19 Spring:
    A18_21S                     RECEIVED COVID VACCINE
    A25_21S                     HOW LIKELY TO GET VACCINE WHEN AVAILABLE
Round 2 COVID-19 Fall:
    A18_21F                     RECEIVED COVID VACCINE
```

Others Diagnosed with COVID-19

Round	Variable	Label	Type
1	R1HHCOVDIAG	r1hhcovdiag:r1 COVID: r other hhold member diag with COVID	Categ
1	S1HHCOVDIAG	s1hhcovdiag:r1 COVID: s other hhold member diag with COVID	Categ
2	R2HHCOVDIAGE	r2hhcovdiage:r2 COVID: r other hhold member ever diag with C	Categ
2	S2HHCOVDIAGE	s2hhcovdiage:r2 COVID: s other hhold member ever diag with C	Categ
1	HH1COVDIAG	hh1covdiag:r1 COVID: any hhold member diag with COVID	Categ
2	HH2COVDIAGE	hh2covdiage:r2 COVID: any hhold member ever diag with COVID	Categ
1	R1OCOVDIAG	r1ocovdiag:r1 COVID: r anyone outside hhold diag with COVID	Categ
1	S1OCOVDIAG	s1ocovdiag:r1 COVID: s anyone outside hhold diag with COVID	Categ
2	R2OCOVDIAGE	r2ocovdiage:r2 COVID: r anyone outside hhold ever diag with	Categ
2	S2OCOVDIAGE	s2ocovdiage:r2 COVID: s anyone outside hhold ever diag with	Categ
1	R1HOCOVDIAG	r1hocovdiag:r1 COVID: r other person inside/outside hhold di	Categ
1	S1HOCOVDIAG	s1hocovdiag:r1 COVID: s other person inside/outside hhold di	Categ
2	R2HOCOVDIAGE	r2hocovdiage:r2 COVID: r other person inside/outside hhold e	Categ
2	S2HOCOVDIAGE	s2hocovdiage:r2 COVID: s other person inside/outside hhold e	Categ
1	HH1HOCOVDIAG	hh1hocovdiag:r1 COVID: anyone inside/outside hhold diag with	Categ
2	HH2HOCOVDIAGE	hh2hocovdiage:r2 COVID: anyone inside/outside hhold ever dia	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HHCOVDIAG	7819	0.06	0.23	0.00	1.00
S1HHCOVDIAG	4898	0.05	0.23	0.00	1.00
R2HHCOVDIAGE	8132	0.18	0.39	0.00	1.00
S2HHCOVDIAGE	5289	0.18	0.39	0.00	1.00
HH1COVDIAG	10324	0.06	0.24	0.00	1.00
HH2COVDIAGE	11548	0.21	0.41	0.00	1.00
R1OCOVDIAG	10301	0.48	0.50	0.00	1.00
S1OCOVDIAG	4896	0.51	0.50	0.00	1.00
R2OCOVDIAGE	11169	0.67	0.47	0.00	1.00
S2OCOVDIAGE	5485	0.70	0.46	0.00	1.00
R1HOCOVDIAG	10322	0.49	0.50	0.00	1.00

S1HOCOVDIAG	4909	0.53	0.50	0.00	1.00
R2HOCOVDIAGE	11182	0.73	0.45	0.00	1.00
S2HOCOVDIAGE	5495	0.77	0.42	0.00	1.00
HH1HOCOVDIAG	10333	0.50	0.50	0.00	1.00
HH2HOCOVDIAGE	11549	0.73	0.45	0.00	1.00

Categorical Variable Codes

Value	R1HHCOVDIAG
.d:DK	8
.h:No hhold members	2516
.m:Missing	6
.r:Refuse	3
0.No	7386
1.Yes	433

Value	S1HHCOVDIAG
.d:DK	6
.h:No hhold members	6
.m:Missing	3
.r:Refuse	1
.u:Unmar	4277
.v:SP NR	1161
0.No	4631
1.Yes	267

Value	R2HHCOVDIAGE
.d:DK	150
.h:No hhold members	2908
.m:Missing	380
0.No	6628
1.Yes	1504

Value	S2HHCOVDIAGE
.d:DK	81
.h:No hhold members	114
.m:Missing	168
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.No	4328
1.Yes	961

Value	HH1COVDIAG
.d:DK	14
.m:Missing	9
.r:Refuse	5
0.No	9698
1.Yes	626

Value	HH2COVDIAGE
.d:DK	1
.m:Missing	21
0.No	9105
1.Yes	2443

Value	R1OCOVDIAG
.d:DK	34
.m:Missing	12
.r:Refuse	5
0.No	5376
1.Yes	4925

Value	S1OCOVDIAG
.d:DK	12
.m:Missing	5
.r:Refuse	1

```
.u:Unmar                  |          4277
.v:SP NR                  |          1161
0.No                      |          2377
1.Yes                     |          2519

Value---------------------|                 R2OCOVDIAGE
.d:DK                     |                         152
.m:Missing                |                         249
0.No                      |                        3721
1.Yes                     |                        7448

Value---------------------|                 S2OCOVDIAGE
.d:DK                     |                          65
.m:Missing                |                         102
.u:Unmar                  |                        3974
.v:SP NR                  |                        1137
.z:Not in wave 15         |                         807
0.No                      |                        1667
1.Yes                     |                        3818

Value---------------------|    R1HOCOVDIAG
.d:DK                     |            16
.m:Missing                |            10
.r:Refuse                 |             4
0.No                      |          5251
1.Yes                     |          5071

Value---------------------|    S1HOCOVDIAG
.d:DK                     |             1
.m:Missing                |             3
.r:Refuse                 |             1
.u:Unmar                  |          4277
.v:SP NR                  |          1161
0.No                      |          2315
1.Yes                     |          2594

Value---------------------|                R2HOCOVDIAGE
.d:DK                     |                         148
.m:Missing                |                         240
0.No                      |                        3062
1.Yes                     |                        8120

Value---------------------|                S2HOCOVDIAGE
.d:DK                     |                          62
.m:Missing                |                          95
.u:Unmar                  |                        3974
.v:SP NR                  |                        1137
.z:Not in wave 15         |                         807
0.No                      |                        1284
1.Yes                     |                        4211

Value---------------------|   HH1HOCOVDIAG
.d:DK                     |             7
.m:Missing                |             9
.r:Refuse                 |             3
0.No                      |          5212
1.Yes                     |          5121

Value---------------------|                HH2HOCOVDIAGE
.d:DK                     |                           1
.m:Missing                |                          20
0.No                      |                        3145
1.Yes                     |                        8404
```

How Constructed:

RrHHCOVDIAG indicates whether any member of the respondent's household has been diagnosed with COVID-19, not including the respondent. RrHHCOVDIAGE indicates whether any member of the respondent's household has ever been diagnosed with COVID-19, not including the respondent. RrHHCOVDIAG is only available at Round 1. RrHHCOVDIAGE is only available at Round 2. While similar questions are asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. RrHHCOVDIAG and RrHHCOVDIAGE are coded as 0 if the respondent reports that no member of their household has been diagnosed with COVID-19. RrHHCOVDIAG and RrHHCOVDIAGE are coded as 1 if the respondent reports that a member of their household

has been diagnosed with COVID-19. Reports of household members diagnosed with COVID-19 from Round 1 are carried forward to Round 2. At Round 1, special missing value (.h) is assigned if the respondent was not asked this question because they are not married or partnered and they do not have household members or resident children. At Round 2, this question is asked regardless of household composition, but we have assigned special missing value (.h) if the respondent reported living alone or not living with other household members for consistency with Round 1. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrHHCOVDIAG and RrHHCOVDIAGE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrHHCOVDIAG indicates whether any member of the respondent's spouse's household has been diagnosed with COVID-19, not including the respondent's spouse. SrHHCOVDIAGE indicates whether any member of the respondent's spouse's household has ever been diagnosed with COVID-19, not including the respondent's spouse. SrHHCOVDIAG and SrHHCOVDIAGE are taken from the spouse's values to RrHHCOVDIAG and RrHHCOVDIAGE, respectively. In addition to the special missing values used in RrHHCOVDIAG and RrHHCOVDIAGE, SrHHCOVDIAG and SrHHCOVDIAGE employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrHHCOVDIAGE if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

HHrCOVDIAG indicates whether any member of the respondent's household has been diagnosed with COVID-19, including the respondent. HHrCOVDIAGE indicates whether any member of the respondent's household has ever been diagnosed with COVID-19, including the respondent. HHrCOVDIAG is only available at Round 1. HHrCOVDIAGE is only available at Round 2. While similar questions are asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. HHrCOVDIAG and HHrCOVDIAGE are coded as 0 if the respondent reports that they have not been tested for COVID-19 or if the respondent reports that they have been tested for COVID-19, but the tests were negative or awaiting results, using either viral or antibody tests. HHrCOVDIAG and HHrCOVDIAGE are also coded as 0 if the respondent reports that a doctor or other health care provider did not tell them they have COVID-19. HHrCOVDIAG and HHrCOVDIAGE are also coded as 0 if the respondent reports that no member of their household has been diagnosed with COVID-19. HHrCOVDIAG and HHrCOVDIAGE are coded as 1 if the respondent reports that any of their COVID-19 tests, either viral or antibody, were positive. HHrCOVDIAG and HHrCOVDIAGE are also coded as 1 if the respondent reports that a doctor or other health care provider told them they have COVID-19. HHrCOVDIAG and HHrCOVDIAGE are also coded as 1 if the respondent reports that a member of their household has been diagnosed with COVID-19. Reports of the respondent and household members diagnosed with COVID-19 from Round 1 are carried forward to Round 2. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HHrCOVDIAG and HHrCOVDIAGE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrOCOVDIAG indicates whether the respondent knows anyone outside their household who has been diagnosed with COVID-19. RrOCOVDIAGE indicates whether the respondent knows anyone outside their household who has ever been diagnosed with COVID-19. RrOCOVDIAG is only available at Round 1. RrOCOVDIAGE is only available at Round 2. While similar questions are asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. RrOCOVDIAG and RrOCOVDIAGE are coded as 0 if the respondent reports that they do not know anyone outside their household who has been diagnosed with COVID-19. RrOCOVDIAG and RrOCOVDIAGE are coded as 1 if the respondent reports that they know someone outside their household who has been diagnosed with COVID-19. Reports of people outside the respondent's household diagnosed with COVID-19 from Round 1 are carried forward to Round 2. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrOCOVDIAG and RrOCOVDIAGE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrHOCOVDIAG indicates whether anyone inside or outside the respondent's household has been diagnosed with COVID-19, not including the respondent. RrHOCOVDIAGE indicates whether anyone inside or outside the respondent's household has ever been diagnosed with COVID-19, not including the respondent. RrHOCOVDIAG is only available at Round 1. RrHOCOVDIAGE is only available at Round 2. While similar questions are asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. RrHOCOVDIAG and RrHOCOVDIAGE are coded as 0 if the respondent reports that no member of their household has been diagnosed with COVID-19. RrHOCOVDIAG and RrHOCOVDIAGE are also coded as 0 if the respondent reports that they do not know anyone outside their household who has been diagnosed with COVID-19. RrHOCOVDIAG and RrHOCOVDIAGE are coded as 1 if the respondent reports that a member of their household has been diagnosed with COVID-19. RrHOCOVDIAG and RrHOCOVDIAGE are also coded as 1 if the respondent reports that they know someone outside their household who has been diagnosed with COVID-19. Reports of

household members and non-household members diagnosed with COVID-19 from Round 1 are carried forward to Round 2. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrHOCOVDIAG and RrHOCOVDIAGE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrOCOVDIAG indicates whether the respondent's spouse knows anyone outside their household who has been diagnosed with COVID-19. SrOCOVDIAGE indicates whether the respondent's spouse knows anyone outside their household who has ever been diagnosed with COVID-19. SrHOCOVDIAG indicates whether anyone inside or outside the respondent's spouse's household has been diagnosed with COVID-19, not including the respondent's spouse. SrHOCOVDIAGE indicates whether anyone inside or outside the respondent's spouse's household has ever been diagnosed with COVID-19, not including the respondent's spouse. SrOCOVDIAG, SrOCOVDIAGE, SrHOCOVDIAG, and SrHOCOVDIAGE are taken from the spouse's values to RrOCOVDIAG, RrOCOVDIAGE, RrHOCOVDIAG, and RrHOCOVDIAGE, respectively. In addition to the special missing values used in RrOCOVDIAG, RrOCOVDIAGE, RrHOCOVDIAG and RrHOCOVDIAGE, SrOCOVDIAG, SrOCOVDIAGE, SrHOCOVDIAG, and SrHOCOVDIAGE employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrOCOVDIAGE and RrHOCOVDIAGE if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

HHrHOCOVDIAG indicates whether anyone inside or outside of the respondent's household has been diagnosed with COVID-19, including the respondent. HHrHOCOVDIAGE indicates whether anyone inside or outside of the respondent's household has ever been diagnosed with COVID-19, including the respondent. HHrHOCOVDIAG is only available at Round 1. HHrHOCOVDIAGE is only available at Round 2. While similar questions are asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. HHrHOCOVDIAG and HHrHOCOVDIAGE are coded as 0 if the respondent reports they have not been tested for COVID-19 or if the respondent reports they have been tested for COVID-19, but the tests were negative or awaiting results, using either viral or antibody tests. HHrHOCOVDIAG and HHrHOCOVDIAGE are also coded as 0 if the respondent reports that a doctor or other health care provider did not tell them they have COVID-19. HHrHOCOVDIAG and HHrHOCOVDIAGE are also coded as 0 if the respondent reports that no member of their household has been diagnosed with COVID-19. HHrHOCOVDIAG and HHrHOCOVDIAGE are also coded as 0 if the respondent reports that they do not know anyone outside their household who has been diagnosed with COVID-19. HHrHOCOVDIAG and HHrHOCOVDIAGE are coded as 1 if the respondent reports that any of their COVID-19 tests, either viral or antibody, were positive. HHrHOCOVDIAG and HHrHOCOVDIAGE are also coded as 1 if the respondent reports that a doctor or other health care provider told them they have COVID-19. HHrHOCOVDIAG and HHrHOCOVDIAGE are also coded as 1 if the respondent reports that a member of their household has been diagnosed with COVID-19. HHrHOCOVDIAG and HHrHOCOVDIAGE are also coded as 1 if the respondent reports that they know someone outside their household who has been diagnosed with COVID-19. Reports of the respondent, household members, and non-household members diagnosed with COVID-19 from Round 1 are carried forward to Round 2. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HHrHOCOVDIAG and HHrHOCOVDIAGE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

Cross Round Differences in HRS

These questions are asked slightly differently between rounds. At Round 1, the respondent is asked two separate questions asking first whether anyone in their household other than the respondent has been diagnosed with COVID-19, and second whether anyone else they know has been diagnosed with COVID-19. Respondents are not asked about diagnoses for other household members if they live alone. At Round 2, the respondent is first asked whether they know anyone (besides themselves) who has been diagnosed with COVID-19, and if so, whether it was their spouse/partner, a different household member, or someone outside their household. We assume that a spouse/partner is a household member when we create these variables.

Please note that while the question text is similar for these questions between Rounds 1 and 2, the implied time frame of the start of the pandemic to the time of interview is sufficiently extended for Round 2 that we employed an adjusted variable naming for these variables at Round 2.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RA098                       count of hhm
    RA099                       number of resident children
    RCOVW551                    have you had covid
    RCOVW552                    tested for covid
    RCOVW553                    test results
    RCOVW557                    doctor confirm covid
    RCOVW574                    household member covid
    RCOVW577                    anyone else diagnosed
    RX065_R                     coupleness status of individual-updated
Round 2 COVID-19 Spring:
    A11_21S                     TEST POSITIVE COVID-19
    A2_21S                      DR./PROVIDER DIAGNOSED COVID-19
    A3_21S                      KNOW ANYONE DIAGNOSED WITH COVID-19
    A4_1_21S                    WHO HAD COVID-SPOUSE/PARTNER
    A4_2_21S                    WHO HAD COVID-OTHER HOUSEHOLD MEMBER
    A4_3_21S                    WHO HAD COVID-SOMEONE OUTSIDE HOUSEHOLD
    A8_21S                      TESTED FOR ANTIBODIES
    A9_21S                      TESTED FOR ACTIVE COVID-19 INFECTION-VIRAL T
    G5_21S                      CURRENTLY LIVE ALONE
    G6_1_21S                    LIVES WITH YOU-SPOUSE/PARTNER
    G6_2_21S                    LIVES WITH YOU-CHILDREN/GRANDCHILDREN
    G6_3_21S                    LIVES WITH YOU-PARENT/PARENTS
    G6_4_21S                    LIVES WITH YOU-OTHER PERSON/PEOPLE
Round 2 COVID-19 Fall:
    A11_21F                     TEST POSITIVE COVID-19
    A2_21F                      DR./PROVIDER DIAGNOSED COVID-19
    A3_21F                      KNOW ANYONE DIAGNOSED WITH COVID-19
    A4_1_21F                    WHO HAD COVID-SPOUSE/PARTNER
    A4_2_21F                    WHO HAD COVID-OTHER HOUSEHOLD MEMBER
    A4_3_21F                    WHO HAD COVID-SOMEONE OUTSIDE HOUSEHOLD
    A8_21F                      TESTED FOR ANTIBODIES
    A9_21F                      TESTED FOR ACTIVE COVID-19 INFECTION-VIRAL T
    G5_21F                      CURRENTLY LIVE ALONE
    G6_1_21F                    LIVES WITH YOU-SPOUSE/PARTNER
    G6_2_21F                    LIVES WITH YOU-CHILDREN/GRANDCHILDREN
    G6_3_21F                    LIVES WITH YOU-PARENT/PARENTS
    G6_4_21F                    LIVES WITH YOU-OTHER PERSON/PEOPLE
```

Others Died from COVID-19

Round	Variable	Label	Type
1	R1OCOVDIED	r1ocovdied:r1 COVID: r anyone died from COVID	Categ
1	S1OCOVDIED	s1ocovdied:r1 COVID: s anyone died from COVID	Categ
2	R2OCOVDIEDE	r2ocovdiede:r2 COVID: r anyone ever died from COVID	Categ
2	S2OCOVDIEDE	s2ocovdiede:r2 COVID: s anyone ever died from COVID	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OCOVDIED	9881	0.28	0.45	0.00	1.00
S1OCOVDIED	4752	0.28	0.45	0.00	1.00
R2OCOVDIEDE	11008	0.43	0.49	0.00	1.00
S2OCOVDIEDE	5422	0.44	0.50	0.00	1.00

Categorical Variable Codes

Value	R1OCOVDIED
.d:DK	32
.m:Missing	429
.r:Refuse	10
0.No	7162
1.Yes	2719

Value	S1OCOVDIED
.d:DK	15
.m:Missing	143
.r:Refuse	4
.u:Unmar	4277
.v:SP NR	1161
0.No	3430
1.Yes	1322

Value	R2OCOVDIEDE
.d:DK	361
.m:Missing	201
0.No	6319
1.Yes	4689

Value	S2OCOVDIEDE
.d:DK	146
.m:Missing	84
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.No	3053
1.Yes	2369

How Constructed:

RrOCOVDIED indicates whether the respondent knows anyone who has died from COVID-19. RrOCOVDIEDE indicates whether the respondent has ever known anyone who has died from COVID-19. RrOCOVDIED is only available at Round 1. RrOCOVDIEDE is only available at Round 2. The respondent is asked if anyone they know has died from COVID-19. While the same question is asked in both rounds without a specified time frame, there is a longer implied time frame for Round 2. RrOCOVDIED and RrOCOVDIEDE are coded as 0 if the respondent reports they do not know anyone who has died from COVID. RrOCOVDIED and RrOCOVDIEDE are coded

as 1 if the respondent reports they know someone who has died from COVID. Reports of knowing someone who has died from COVID-19 from Round 1 are carried forward to Round 2. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrOCOVDIED and RrOCOVDIEDE are coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrOCOVDIED indicates whether the respondent's spouse knows anyone who has died from COVID-19. SrOCOVDIEDE indicates whether the respondent's spouse has ever known anyone who has died from COVID-19. SrOCOVDIED and SrOCOVDIEDE are taken from the spouse's values to RrOCOVDIED and RrOCOVDIEDE, respectively. In addition to the special missing values used in RrOCOVDIED and RrOCOVDIEDE, SrOCOVDIED and SrOCOVDIEDE employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrOCOVDIEDE if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Please note that while the question text is the same for this question between Rounds 1 and 2, the implied time frame of the start of the pandemic to the time of interview is sufficiently extended for Round 2 that we employed an adjusted variable naming between rounds for knowing someone who has died from COVID-19.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW578                    anyone died
Round 2 COVID-19 Spring:
    A5_21S                      KNOW ANYONE WHO DIED FROM COVID-19
Round 2 COVID-19 Fall:
    A5_21F                      KNOW ANYONE WHO DIED FROM COVID-19
```

Section C: Mitigation Behaviors

Concern Due To COVID-19

Round	Variable	Label	Type
1	R1COVCONC	r1covconc:r1 COVID: r concern pandemic	Cont
1	S1COVCONC	s1covconc:r1 COVID: s concern pandemic	Cont
2	R2CCONCIV	r2cconciv:r2 COVID: r more concerned illness or vaccine	Categ
2	S2CCONCIV	s2cconciv:r2 COVID: s more concerned illness or vaccine	Categ
1	R1CCONCHLT	r1cconchlt:r1 COVID: r concern own health	Cont
2	R2CCONCHLT	r2cconchlt:r2 COVID: r concern own health 1st yr pndmc	Cont
1	S1CCONCHLT	s1cconchlt:r1 COVID: s concern own health	Cont
2	S2CCONCHLT	s2cconchlt:r2 COVID: s concern own health 1st yr pdnmc	Cont
1	R1CCONCFAM	r1cconcfam:r1 COVID: r concern family's health	Cont
2	R2CCONCFAM	r2cconcfam:r2 COVID: r concern family's health 1st yr pndmc	Cont
1	S1CCONCFAM	s1cconcfam:r1 COVID: s concern family's health	Cont
2	S2CCONCFAM	s2cconcfam:r2 COVID: s concern family's health 1st yr pndmc	Cont
1	R1CCONCFAMZ	r1cconcfamz:r1 COVID: r concern family's health z-score	Cont
2	R2CCONCFAMZ	r2cconcfamz:r2 COVID: r concern family's health 1st yr pndmc	Cont
1	S1CCONCFAMZ	s1cconcfamz:r1 COVID: s concern family's health z-score	Cont
2	S2CCONCFAMZ	s2cconcfamz:r2 COVID: s concern family's health 1st yr pndmc	Cont
1	R1CCONCHLP	r1cconchlp:r1 COVID: r concern able to get help	Cont
2	R2CCONCHLP	r2cconchlp:r2 COVID: r concern able to get help 1st yr pndmc	Cont
1	S1CCONCHLP	s1cconchlp:r1 COVID: s concern able to get help	Cont
2	S2CCONCHLP	s2cconchlp:r2 COVID: s concern able to get help 1st yr pndmc	Cont
1	R1CCONCFUT	r1cconcfut:r1 COVID: r concern about the future	Cont
2	R2CCONCFUT	r2cconcfut:r2 COVID: r concern about the future 1st yr pndmc	Cont
1	S1CCONCFUT	s1cconcfut:r1 COVID: s concern about the future	Cont
2	S2CCONCFUT	s2cconcfut:r2 COVID: s concern about the future 1st yr pndmc	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVCONC	10214	7.79	2.71	1.00	10.00
S1COVCONC	4865	7.71	2.64	1.00	10.00
R2CCONCIV	10912	1.42	0.96	0.00	3.00
S2CCONCIV	5385	1.36	0.92	0.00	3.00
R1CCONCHLT	4565	5.46	3.21	0.00	10.00
R2CCONCHLT	11297	5.11	3.44	0.00	10.00
S1CCONCHLT	2620	5.42	3.16	0.00	10.00
S2CCONCHLT	5572	5.07	3.37	0.00	10.00
R1CCONCFAM	4565	6.47	3.06	0.00	10.00

R2CCONCFAM	11260	6.23	3.36	0.00	10.00
S1CCONCFAM	2624	6.50	2.98	0.00	10.00
S2CCONCFAM	5563	6.30	3.25	0.00	10.00
R1CCONCFAMZ	4565	0.00	1.00	-2.11	1.15
R2CCONCFAMZ	11260	-0.00	1.00	-1.86	1.12
S1CCONCFAMZ	2624	0.01	0.97	-2.11	1.15
S2CCONCFAMZ	5563	0.02	0.97	-1.86	1.12
R1CCONCHLP	4555	3.45	3.20	0.00	10.00
R2CCONCHLP	11252	3.13	3.39	0.00	10.00
S1CCONCHLP	2619	3.30	3.10	0.00	10.00
S2CCONCHLP	5556	2.80	3.19	0.00	10.00
R1CCONCFUT	4567	5.13	3.30	0.00	10.00
R2CCONCFUT	11221	5.00	3.55	0.00	10.00
S1CCONCFUT	2627	5.05	3.24	0.00	10.00
S2CCONCFUT	5550	4.88	3.48	0.00	10.00

Categorical Variable Codes

Value	R2CCONCIV
.d:DK	393
.m:Missing	265
0.Not concerned	1235
1.More concerned illness	6385
2.More concerned vaccine	808
3.Equally concerned	2484

Value	S2CCONCIV
.d:DK	167
.m:Missing	100
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.Not concerned	582
1.More concerned illness	3361
2.More concerned vaccine	361
3.Equally concerned	1081

How Constructed:

RrCOVCONC indicates the respondent's level of concern about the COVID-19 pandemic. RrCOVCONC is only available at Round 1. At Round 1, respondents rate their concern about the pandemic on a scale of 1 to 10, with 1 being least concerned and 10 being most concerned. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOVCONC is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCONCIV indicates whether the respondent is more concerned about the COVID-19 illness severity or the COVID-19 vaccine side effects. RrCCONCIV is only available at Round 2. At Round 2, respondents are asked whether they are more concerned about the severity of the COVID-19 illness or the COVID-19 vaccine side effects. RrCCONCIV is coded as 0 if the respondent reports that they are not concerned about either the severity of the COVID-19 illness or the COVID-19 vaccine side effects. RrCCONCIV is coded as 1 if the respondent reports that they are more concerned about the COVID-19 illness than the COVID-19 vaccine side effects. RrCCONCIV is coded as 2 if the respondent reports that they are more concerned about the COVID-19 vaccine side effects than the severity of the COVID-19 illness. RrCCONCIV is coded as 3 if the respondent reports that they are equally concerned with both the severity of the COVID-19 illness and the COVID-19 vaccine side effects. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCONCIV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

At Rounds 1 and 2, respondents are asked to rate their level of concern - on a scale of 0 to 10, with 0 being not at all worried and 10 being very worried - about their own health; the health of others in their family; being able to get help from family, friends, or others if needed; and what will happen in the future. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how worried they are in the present because of the pandemic, while at Round 2, respondents are asked how worried they were during the first year of the pandemic (from March 2020 to March 2021). As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCCONCHLT indicates the respondent's level of concern about their own health due to the COVID-19 pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCONCHLT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCONCFAM and RrCCONCFAMZ indicate the respondent's level of concern about the health of their family due to the COVID-19 pandemic. RrCCONCFAMZ is a z-scored version of the respondent's concern about their family's health, and is calculated by z-scoring RrCCONCFAM. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCONCFAM and RrCCONCFAMZ are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCONCHLP indicates the respondent's level of concern about being able to get help due to the COVID-19 pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCONCHLP is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCONCFUT indicates the respondent's level of concern about what will happen in the future due to the COVID-19 pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCONCFUT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCOVCONC indicates the respondent's spouse's level of concern about the COVID-19 pandemic. SrCCONCIV indicates whether the respondent's spouse is more concerned about the COVID-19 illness severity or the COVID-19 vaccine side effects. SrCCONCHLT indicates the respondent's spouse's level of concern about their own health due to the COVID-19 pandemic. SrCCONCFAM and SrCCONCFAMZ indicate the respondent's spouse's level of concern about the health of their family due to the COVID-19 pandemic. SrCCONCHLP indicates the respondent's spouse's level of concern about being able to get help due to the COVID-19 pandemic. SrCCONCFUT indicates the respondent's spouse's level of concern about what will happen in the future due to the COVID-19 pandemic. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrCCONCIV, RrCCONCHLT, RrCCONCFAM, RrCCONCFAMZ, RrCCONCHLP, and RrCCONCFUT if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to report their level of concern about the COVID-19 pandemic.

Unlike Round 2, Round 1 does not ask respondents to report whether they are more concerned about the severity of the COVID-19 illness or the COVID-19 vaccine side effects.

At Rounds 1 and 2, respondents are asked to rate to report their level of concern about their own health; the health of others in their family; being able to get help from family, friends, and others if needed; and what will happen in the future due to the COVID-19 pandemic. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked how worried they are in

the present because of the pandemic, while at Round 2, respondents are asked how worried they were during the first year of the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW550                    covid concern
    RLB055A                     q55a. own health
    RLB055B                     q55b. the health of others in family
    RLB055D                     q55d. being able to get help
    RLB055E                     q55e. what will happen in the future
Round 2 COVID-19 Spring:
    A14_21S                     MORE CONCERNED-COVID-19 ILLNESS/VACCINE SIDE
    H1A_21S                     DURING FIRST YEAR OF PANDEMIC WORRIED-ABOUT
    H1B_21S                     DURING FIRST YEAR OF PANDEMIC WORRIED-ABOUT
    H1D_21S                     DURING FIRST YEAR OF PANDEMIC HOW WORRIED-AB
    H1E_21S                     DURING FIRST YEAR OF PANDEMIC HOW WORRIED-AB
Round 2 COVID-19 Fall:
    A14_21F                     MORE CONCERNED-COVID-19 ILLNESS/VACCINE SIDE
    H1A_21F                     DURING FIRST YEAR OF PANDEMIC WORRIED-ABOUT
    H1B_21F                     DURING FIRST YEAR OF PANDEMIC WORRIED-ABOUT
    H1D_21F                     DURING FIRST YEAR OF PANDEMIC HOW WORRIED-AB
    H1E_21F                     DURING FIRST YEAR OF PANDEMIC HOW WORRIED-AB
```

COVID-19 Precautions

Round	Variable	Label	Type
1	R1CMASKF	r1cmaskf:r1 COVID: r freq wore face mask	Categ
2	R2CMASKF	r2cmaskf:r2 COVID: r freq wore face mask 1st yr pndmc	Categ
1	S1CMASKF	s1cmaskf:r1 COVID: s freq wore face mask	Categ
2	S2CMASKF	s2cmaskf:r2 COVID: s freq wore face mask 1st yr pndmc	Categ
1	R1CMASK	r1cmask:r1 COVID: r wore face mask	Categ
2	R2CMASK	r2cmask:r2 COVID: r wore face mask 1st yr pndmc	Categ
1	S1CMASK	s1cmask:r1 COVID: s wore face mask	Categ
2	S2CMASK	s2cmask:r2 COVID: s wore face mask 1st yr pndmc	Categ
1	R1CWASHF	r1cwashf:r1 COVID: r freq washed hands/used sanitizer	Categ
2	R2CWASHF	r2cwashf:r2 COVID: r freq washed hands/used sanitizer 1st yr	Categ
1	S1CWASHF	s1cwashf:r1 COVID: s freq washed hands/used sanitizer	Categ
2	S2CWASHF	s2cwashf:r2 COVID: s freq washed hands/used sanitizer 1st yr	Categ
1	R1CWASH	r1cwash:r1 COVID: r washed hands/used sanitizer	Categ
2	R2CWASH	r2cwash:r2 COVID: r washed hands/used sanitizer 1st yr pndmc	Categ
1	S1CWASH	s1cwash:r1 COVID: s washed hands/used sanitizer	Categ
2	S2CWASH	s2cwash:r2 COVID: s washed hands/used sanitizer 1st yr pndmc	Categ
1	R1CDISTF	r1cdistf:r1 COVID: r freq kept distance from others	Categ
2	R2CDISTF	r2cdistf:r2 COVID: r freq kept distance from others 1st yr p	Categ
1	S1CDISTF	s1cdistf:r1 COVID: s freq kept distance from others	Categ
2	S2CDISTF	s2cdistf:r2 COVID: s freq kept distance from others 1st yr p	Categ
1	R1CDIST	r1cdist:r1 COVID: r kept distance from others	Categ
2	R2CDIST	r2cdist:r2 COVID: r kept distance from others 1st yr pndmc	Categ
1	S1CDIST	s1cdist:r1 COVID: s kept distance from others	Categ
2	S2CDIST	s2cdist:r2 COVID: s kept distance from others 1st yr pndmc	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CMASKF	4576	2.87	0.36	1.00	3.00
R2CMASKF	11267	2.79	0.43	1.00	3.00
S1CMASKF	2621	2.87	0.36	1.00	3.00
S2CMASKF	5562	2.78	0.43	1.00	3.00
R1CMASK	4576	0.99	0.10	0.00	1.00
R2CMASK	11267	0.99	0.09	0.00	1.00
S1CMASK	2621	0.99	0.09	0.00	1.00
S2CMASK	5562	0.99	0.09	0.00	1.00
R1CWASHF	4579	2.88	0.35	1.00	3.00
R2CWASHF	11272	2.72	0.47	1.00	3.00
S1CWASHF	2623	2.87	0.36	1.00	3.00
S2CWASHF	5560	2.71	0.47	1.00	3.00

R1CWASH	4579	0.99	0.08	0.00	1.00
R2CWASH	11272	0.99	0.10	0.00	1.00
S1CWASH	2623	0.99	0.09	0.00	1.00
S2CWASH	5560	0.99	0.10	0.00	1.00
R1CDISTF	4574	2.84	0.40	1.00	3.00
R2CDISTF	11241	2.67	0.50	1.00	3.00
S1CDISTF	2620	2.84	0.40	1.00	3.00
S2CDISTF	5553	2.65	0.51	1.00	3.00
R1CDIST	4574	0.99	0.12	0.00	1.00
R2CDIST	11241	0.98	0.13	0.00	1.00
S1CDIST	2620	0.99	0.11	0.00	1.00
S2CDIST	5553	0.98	0.13	0.00	1.00

Categorical Variable Codes

Value	R1CMASKF	R2CMASKF
.m:Missing	94	237
.n:Does not apply		66
.s:Not in self-completion q	5682	
1.Never	50	96
2.Sometimes	479	2136
3.Always	4047	9035

Value	S1CMASKF
.m:Missing	45
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
1.Never	21
2.Sometimes	302
3.Always	2298

Value	R1CMASK	R2CMASK
.m:Missing	94	237
.n:Does not apply		66
.s:Not in self-completion q	5682	
0.Never	50	96
1.Sometimes or always	4526	11171

Value	S1CMASK
.m:Missing	45
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.Never	21
1.Sometimes or always	2600

Value	R1CWASHF	R2CWASHF
.m:Missing	91	255
.n:Does not apply		43
.s:Not in self-completion q	5682	
1.Never	33	104
2.Sometimes	494	2906
3.Always	4052	8262

Value	S1CWASHF
.m:Missing	43
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
1.Never	23
2.Sometimes	304
3.Always	2296

Value	R1CWASH	R2CWASH
.m:Missing	91	255
.n:Does not apply		43
.s:Not in self-completion q	5682	
0.Never	33	104
1.Sometimes or always	4546	11168

Value	S1CWASH
.m:Missing	43
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.Never	23
1.Sometimes or always	2600

Value	R1CDISTF	R2CDISTF
.m:Missing	96	253
.n:Does not apply		76
.s:Not in self-completion q	5682	
1.Never	63	181
2.Sometimes	615	3402
3.Always	3896	7658

Value	S1CDISTF
.m:Missing	46
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
1.Never	31
2.Sometimes	363
3.Always	2226

Value	R1CDIST	R2CDIST
.m:Missing	96	253
.n:Does not apply		76
.s:Not in self-completion q	5682	
0.Never	63	181
1.Sometimes or always	4511	11060

Value	S1CDIST
.m:Missing	46
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.Never	31
1.Sometimes or always	2589

How Constructed:

At Rounds 1 and 2, respondents are asked to report how often they took different precautions - wearing a mask around other people outside their home, washing their hands or using hand sanitizer, and keeping their distance from others outside their home - during the COVID-19 pandemic. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how often they took the specific precaution since the beginning of the pandemic, while Round 2 asks respondents to report how often they took the specific precaution during the first year of the pandemic (from March 2020 to March 2021). As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCMASKF and RrCMASK indicate how often the respondent has worn a face mask around other people outside their home during the COVID-19 pandemic. At Round 1, the respondent may report that they "always", "sometimes", or "never" wore a face mask around other people outside their home during the pandemic. At Round 2, the respondent may report that they "always", "most of the time", "half the time", "less than half the time", or "never" wore a face mask around other people outside their home during the first year of the pandemic (from March 2020 to March 2021). At Round 2, the respondent may also report that the question does not apply to them.

RrCMASKF is coded as 1 if the respondent reports that they have never worn a face mask around other people outside their home during the pandemic. At Round 1, RrCMASKF is coded as 2 if the respondent reports that they have sometimes worn a face mask around other people outside their home during the pandemic. At Round 2, RrCMASKF is coded as 2 if the respondent reported that they have worn a face mask around other people outside their home most of the time, half the time, or less than half the time during

the pandemic. RrCMASKF is coded as 3 if the respondent reports they have always worn a face mask around other people outside their home during the pandemic.

To make this question comparable across Harmonized COVID datasets, a binary variable, RrCMASK, has been created that combines "always" and "sometimes" responses into one category. RrCMASK is coded as 0 if the respondent reports that they have never worn a face mask around other people outside their home during the pandemic. At Round 1, RrCMASK is coded as 1 if the respondent reports that they have sometimes or always worn a face mask around other people outside their home during the pandemic. At Round 2, RrCMASK is coded as 1 if the respondent reports that they have worn a face mask around other people outside their home always, most of the time, half the time, or less than half the time during the pandemic.

At Round 1, special missing value (.s) is assigned to RrCMASKF and RrCMASK if the respondent did not participate in the self-completion questionnaire. At Round 2, special missing value (.n) is assigned to RrCMASKF and RrCMASK if the respondent reports that the question "doesn't apply to me". Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCMASKF and RrCMASK are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCWASHF and RrCWASH indicate how often the respondent has washed their hands or used hand sanitizer during the COVID-19 pandemic. At Round 1, respondents are separately asked how often they washed their hands with soap and water more frequently and used special hand sanitizers or disinfectants. At Round 1, the respondent may report that they "always", "sometimes", or "never" washed their hands with soap more frequently and used special hand sanitizers or disinfectants during the pandemic. At Round 2, only one question surveys how often the respondent washed their hands with soap or used hand sanitizer after being around others. At Round 2, the respondent may report that they "always", "most of the time", "half the time", "less than half the time", or "never" washed their hands with soap or used hand sanitizer after being around others during the first year of the pandemic (from March 2020 to March 2021).

At Round 1, RrCWASHF is coded as 1 if the respondent reports that they have never washed their hands with soap more frequently or never used special hand sanitizers or disinfectants during the pandemic. At Round 2, RrCWASHF is coded as 1 if the respondent reports that they have never washed their hands with soap or used hand sanitizer after being around others during the pandemic. At Round 1, RrCWASHF is coded as 2 if the respondent reports that they have sometimes washed their hands with soap more frequently or sometimes used special hand sanitizers or disinfectants during the pandemic. At Round 2, RrCWASHF is coded as 2 if the respondent reports that they have washed their hands with soap or used hand sanitizer after being around others most of the time, half the time, or less than half the time during the pandemic. At Round 1, RrCWASHF is coded as 3 if the respondent reports that they have always washed their hands with soap more frequently or always used special hand sanitizers or disinfectants during the pandemic. At Round 2, RrCWASHF is coded as 3 if the respondent reports that they have always washed their hands with soap or used hand sanitizer after being around others during the pandemic.

To make these questions comparable across Harmonized COVID datasets, a binary variable, RrCWASH, has been created that combines "always" and "sometimes" responses into one category. At Round 1, RrCWASH is coded as 0 if the respondent reports that they have never washed their hands with soap more frequently or never used special hand sanitizers or disinfectants during the pandemic. At Round 2, RrCWASH is coded as 0 if the respondent reports that they have never washed their hands with soap or used hand sanitizer after being around others during the pandemic. At Round 1, RrCWASH is coded as 1 if the respondent reports that they have sometimes or always washed their hands with soap more frequently or sometimes or always used special hand sanitizers or disinfectants during the pandemic. At Round 2, RrCWASH is coded as 1 if the respondent reports that they have washed their hands with soap or used hand sanitizer after being around others always, most of the time, half the time, or less than half the time during the pandemic.

At Round 1, special missing value (.s) is assigned to RrCWASHF and RrCWASH if the respondent did not participate in the self-completion questionnaire. At Round 2, special missing value (.n) is assigned to RrCWASHF and RrCWASH if the respondent reports that the question "doesn't apply to me". Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCWASHF and RrCWASH are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCDISTF and RrCDIST indicate how often the respondent has kept their distance from others when they went outside their home during the COVID-19 pandemic. At Round 1, the respondent may report that they "always", "sometimes", or "never" kept their distance from others when they went outside their home during the pandemic. At Round 2, the respondent may report that they "always", "most of the time", "half

the time", "less than half the time", or "never" kept their distance from others when they went outside their home during the first year of the pandemic (from March 2020 to March 2021). At Round 2, the respondent may also report that the question does not apply to them.

RrCDISTF is coded as 1 if the respondent reports that they have never kept their distance from others when they went outside their home during the pandemic. At Round 1, RrCDISTF is coded as 2 if the respondent reports that they have sometimes kept their distance from others when they went outside their home during the pandemic. At Round 2, RrCDISTF is coded as 2 if the respondent reports that they have kept their distance from others when they went outside their home most of the time, half the time, or less than half the time during the pandemic. RrCDISTF is coded as 3 if the respondent reports that they have always kept their distance from others when they went outside their home during the pandemic

To make this question comparable across Harmonized COVID datasets, a binary variable, RrCDIST, has been created that combines "always" and "sometimes" responses into one category. RrCDIST is coded as 0 if the respondent reports that they have never kept their distance from others when they went outside their home during the pandemic. At Round 1, RrCDIST is coded as 1 if the respondent reports that they have sometimes or always kept their distance from others when they went outside their home during the pandemic. At Round 2, RrCDIST is coded as 1 if the respondent reports that they have kept their distance from others when they went outside their home always, most of the time, half the time, or less than half the time during the pandemic.

At Round 1, special missing value (.s) is assigned to RrCDISTF and RrCDIST if the respondent did not participate in the self-completion questionnaire. At Round 2, special missing value (.n) is assigned if the respondent reports that the question "doesn't apply to me". Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDISTF and RrCDIST are coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCMASKF and SrCMASK indicate whether the respondent's spouse has worn a face mask around other people outside their home during the COVID-19 pandemic. SrCWASHF and SrCWASH indicate whether the respondent's spouse has washed their hands or used hand sanitizer during the COVID-19 pandemic. SrCDISTF and SrCDIST indicate whether the respondent's spouse has kept their distance from others when they went outside their home during the COVID-19 pandemic. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Rounds 1 and 2, respondents are asked to report how often they took different precautions – wearing a mask around other people outside their home, washing their hands or using hand sanitizer, and keeping their distance from others outside their home - during the COVID-19 pandemic. At Round 1, respondents are asked to report how often they took the specific precaution since the beginning of the pandemic, while Round 2 asks respondents to report how often they took the specific precaution during the first year of the pandemic (from March 2020 to March 2021). As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, respondents are separately asked how often they washed their hands with soap and water more frequently and used special hand sanitizers or disinfectants. At Round 2, only one question surveys how often the respondent washed their hands with soap or used hand sanitizer after being around others.

At Round 1, respondents may report that they "always", "sometimes", or "never" took the specific precaution. At Round 2, respondent may report that they "always", "most of the time", "half the time", "less than half the time", or "never" took the specific precaution. At Round 2, the respondent may also report that the question does not apply to them.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB068A                     q68a. worn a mask around other people outsid
    RLB068B                     q68b. washed hands with soap more frequently
    RLB068C                     q68c. kept distance from others outside
    RLB068D                     q68d. used special hand sanitizers
Round 2 COVID-19 Spring:
    H14A_21S                    DURING PANDEMIC 3/2020-3/2021 HOW OFTEN-WEAR
    H14B_21S                    DURING PANDEMIC 3/2020-3/2021 HOW OFTEN-KEEP
    H14C_21S                    DURING PANDEMIC 3/2020-3/2021 HOW OFTEN-WASH
Round 2 COVID-19 Fall:
    H14A_21F                    DURING PANDEMIC 3/2020-3/2021 HOW OFTEN-WEAR
    H14B_21F                    DURING PANDEMIC 3/2020-3/2021 HOW OFTEN-KEEP
    H14C_21F                    DURING PANDEMIC 3/2020-3/2021 HOW OFTEN-WASH
```

Change in Living Situation

Round	Variable	Label	Type
1	R1CCHLIV	r1cchliv:r1 COVID: r changed living place	Categ
2	R2CCHLIV	r2cchliv:r2 COVID: r changed living place since March 2020	Categ
1	S1CCHLIV	s1cchliv:r1 COVID: s changed living place	Categ
2	S2CCHLIV	s2cchliv:r2 COVID: s changed living place since March 2020	Categ
1	R1CNEWLIV	r1cnewliv:r1 COVID: r new living place	Categ
2	R2CNEWLIV	r2cnewliv:r2 COVID: r new living place since March 2020	Categ
1	S1CNEWLIV	s1cnewliv:r1 COVID: s new living place	Categ
2	S2CNEWLIV	s2cnewliv:r2 COVID: s new living place since March 2020	Categ
1	R1COMOVE	r1comove:r1 COVID: r someone moved into hhold	Categ
2	R2COMOVE	r2comove:r2 COVID: r someone moved into hhold since March 20	Categ
1	S1COMOVE	s1comove:r1 COVID: s someone moved into hhold	Categ
2	S2COMOVE	s2comove:r2 COVID: s someone moved into hhold since March 20	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CCHLIV	10321	0.02	0.13	0.00	1.00
R2CCHLIV	11320	0.03	0.17	0.00	1.00
S1CCHLIV	4902	0.01	0.11	0.00	1.00
S2CCHLIV	5571	0.02	0.14	0.00	1.00
R1CNEWLIV	171	2.34	1.23	1.00	4.00
R2CNEWLIV	571	1.97	1.13	1.00	4.00
S1CNEWLIV	57	2.21	1.37	1.00	4.00
S2CNEWLIV	206	1.78	1.16	1.00	4.00
R1COMOVE	10152	0.03	0.17	0.00	1.00
R2COMOVE	11285	0.05	0.22	0.00	1.00
S1COMOVE	4848	0.04	0.19	0.00	1.00
S2COMOVE	5554	0.06	0.24	0.00	1.00

Categorical Variable Codes

Value	R1CCHLIV	R2CCHLIV
.d:DK	7	
.m:Missing	20	250
.r:Refuse	4	
0.No	10149	10992
1.Yes	172	328

Value	S1CCHLIV	S2CCHLIV
.d:DK	3	
.m:Missing	6	81
.r:Refuse	3	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4845	5456
1.Yes	57	115

Value	R1CNEWLIV	R2CNEWLIV
.d:DK	1	
.m:Missing	31	247
.n:Did not change living pl	10149	10752
1.Own home	55	263
2.Someone else's home	57	169
3.Health care facility	5	32
4.Other	54	107

Value	S1CNEWLIV	S2CNEWLIV
.m:Missing	12	83
.n:Did not change living pl	4845	5363
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Own home	28	127
2.Someone else's home	9	36
3.Health care facility		4
4.Other	20	39

Value	R1COMOVE	R2COMOVE
.c:Changed living place	172	
.d:DK	5	
.m:Missing	20	285
.r:Refuse	3	
0.No	9857	10710
1.Yes	295	575

Value	S1COMOVE	S2COMOVE
.c:Changed living place	57	
.d:DK	2	
.m:Missing	6	98
.r:Refuse	1	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4669	5227
1.Yes	179	327

How Constructed:

At Rounds 1 and 2, respondents are asked to report if they changed where they live due to the COVID-19 pandemic. At Rounds 1 and 2, if the respondent reports that they changed where they live, then they are asked to report where they moved to. At Round 1, if the respondent reports that they did not change where they live, then they are asked to report if anyone moved in with them due to the pandemic. At Round 2, all respondents are asked to report if anyone moved in with them due to the pandemic. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report whether they changed where they live or whether someone moved in with them due to the pandemic, while Round 2 asks respondents to report whether the changed where they live or whether someone moved in with them for one month or more since the beginning of the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCCHLIV indicates whether the respondent changed where they live due to the COVID-19 pandemic. RrCCHLIV is coded as 0 if the respondent reports that they did not change where they live due to the pandemic. RrCCHLIV is coded as 1 if the respondent reports that they did change where they live due to the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCHLIV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCNEWLIV indicates where the respondent moved due to the COVID-19 pandemic. The respondent may report that they moved "to own home", "to a child's/stepchild's home", "to a home of some other family member", "to a friend's home", "to a health care facility (incl. nursing home"), or "other". RrCNEWLIV is coded as 1 if the respondent reports that they moved to their own home due to the pandemic. RrCNEWLIV is coded as 2 if the respondent reports that they moved to a child's/stepchild's home, the home of some other family member, or a friend's home due to the pandemic. RrCNEWLIV is coded as 3 if the respondent reports that they moved to a health care facility due to the pandemic. RrCNEWLIV is coded as 4 if the respondent reports they moved to another place due to the pandemic. Special missing value (.n) is assigned if the respondent was not asked this question because they reported that they did not change where they live due to the pandemic, that is where RrCCHLIV is coded as 0. Don't know, refused, and missing responses are

coded as special missing values (.d), (.r), and (.m), respectively. RrCNEWLIV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCOMOVE indicates whether anyone moved in with the respondent due to the COVID-19 pandemic. At Round 1, the respondent is asked if they changed where they live due to the pandemic. If the respondent reports that they did not change where they live, they are asked if someone moved in with them because of the pandemic. At Round 2, all respondents are asked to report if someone moved in with them for a month or more due to the pandemic. RrCOMOVE is coded as 0 if the respondent reports that nobody moved in with them due to the pandemic. RrCOMOVE is coded as 1 if the respondent reports that someone moved in with them due to the pandemic. At Round 1, special missing value (.c) is assigned if the respondent was not asked this question because they reported that they did change where they live due to the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCOMOVE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCHLIV indicates whether the respondent's spouse changed where they live due to COVID-19. SrCNEWLIV indicates where the respondent's spouse moved due to COVID-19. SrCOMOVE indicates whether anyone moved in with the respondent's spouse due to COVID-19. SrCCHLIV, SrCNEWLIV, and SrCOMOVE are taken from the spouse's values to RrCCHLIV, RrCNEWLIV, and RrCOMOVE, respectively. In addition to the special missing values used in RrCCHLIV, RrCNEWLIV, and RrCOMOVE, SrCCHLIV, SrCNEWLIV, and SrCOMOVE employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Rounds 1 and 2, respondents are asked to report if they changed where they live due to the COVID-19 pandemic. At Rounds 1 and 2, if the respondent reports that they changed where they live, then they are asked to report where they moved to. At Round 1, if the respondent reports that they did not change where they live, then they are asked to report if anyone moved in with them due to the pandemic. At Round 2, all respondents are asked to report if anyone moved in with them due to the pandemic. At Round 1, respondents are asked to report whether they changed where they live or whether someone moved in with them due to the pandemic, while Round 2 asks respondents to report whether the changed where they live or whether someone moved in with them for one month or more since the beginning of the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW625                    change living place
    RCOVW626M1                  where moved - 1
    RCOVW628                    move in with you
Round 2 COVID-19 Spring:
    G1_21S                      DID YOU MOVE SNC MARCH 2020 BECAUSE OF PANDE
    G2_1_21S                    WHERE DID YOU MOVE-OWN HOME
    G2_2_21S                    WHERE DID YOU MOVE-CHILD/STEPCHILD'S HOME
    G2_3_21S                    WHERE DID YOU MOVE-OTHER FAMILY MEMBER'S HOM
    G2_4_21S                    WHERE DID YOU MOVE-FRIEND'S HOME
    G2_5_21S                    WHERE DID YOU MOVE-HEALTH CARE FACILITY
    G2_97_21S                   WHERE DID YOU MOVE-OTHER/SPECIFY
    G3_21S                      DID ANYONE MOVE IN WITH YOU SNC MARCH 2020 B
Round 2 COVID-19 Fall:
    G1_21F                      DID YOU MOVE SNC MARCH 2020 BECAUSE OF PANDE
    G2_1_21F                    WHERE DID YOU MOVE-OWN HOME
    G2_2_21F                    WHERE DID YOU MOVE-CHILD/STEPCHILD'S HOME
    G2_3_21F                    WHERE DID YOU MOVE-OTHER FAMILY MEMBER'S HOM
```

```
G2_4_21F                    WHERE DID YOU MOVE-FRIEND'S HOME
G2_5_21F                    WHERE DID YOU MOVE-HEALTH CARE FACILITY
G2_97_21F                   WHERE DID YOU MOVE-OTHER/SPECIFY
G3_21F                      DID ANYONE MOVE IN WITH YOU SNC MARCH 2020 B
```

Section D: Health

Health Behaviors: Drinking

Round	Variable	Label	Type
2	R2CDRINKCH	r2cdrinkch:r2 COVID: r change in drinking freq during pandem	Categ
2	S2CDRINKCH	s2cdrinkch:r2 COVID: s change in drinking freq during pandem	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2CDRINKCH	5799	1.98	0.60	1.00	3.00
S2CDRINKCH	3069	2.02	0.57	1.00	3.00

Categorical Variable Codes

Value	R2CDRINKCH
.m:Missing	490
.n:Does not apply	5281
1.Less often	1100
2.About the same	3719
3.More often	980

Value	S2CDRINKCH
.m:Missing	164
.n:Does not apply	2419
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
1.Less often	474
2.About the same	2062
3.More often	533

How Constructed:

RrCDRINKCH indicates how the respondent's drinking frequency changed during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to the months before March 2020. RrCDRINKCH is only available at Round 2. At Round 2, respondents are asked if they drank alcohol more often, about the same, or less often during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to before the pandemic. RrCDRINKCH is coded as 1 if the respondent reports that they drank less often during the first year of the pandemic. RrCDRINKCH is coded as 2 if the respondent reports that they drank about the same amount during the first year of the pandemic. RrCDRINKCH is coded as 3 if the respondent reports that they drank more often during the first year of the pandemic. Special missing value (.n) is assigned if the respondent reports that they did not drink before the pandemic and they do not currently drink. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDRINKCH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCDRINKCH indicates how much the respondent's spouse changed their alcohol consumption during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to the months before March 2020. SrCDRINKCH is taken from the spouse's value to RrCDRINKCH. In addition to the special missing values used in RrCDRINKCH, SrCDRINKCH employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrCDRINKCH if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

The question related to how the respondent's drinking frequency changed during the first year of the COVID-19 pandemic compared to before the pandemic was only asked at Round 2.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 2 COVID-19 Spring:
    H15T_21S                   CHANGE 3/2020-3/2021 IN HOW OFTEN-DRANK ALCO
Round 2 COVID-19 Fall:
    H15T_21F                   CHANGE 3/2020-3/2021 IN HOW OFTEN-DRANK ALCO
```

Health Behaviors: Smoking (Cigarettes)

Round	Variable	Label	Type
1	R1CSMOKEF	r1csmokef:r1 COVID: r # cigarettes/day	Cont
1	S1CSMOKEF	s1csmokef:r1 COVID: s # cigarettes/day	Cont
2	R2CSMOKECH	r2csmokech:r2 COVID: r change in smoking freq during pandemi	Categ
2	S2CSMOKECH	s2csmokech:r2 COVID: s change in smoking freq during pandemi	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CSMOKEF	10226	1.42	4.67	0.00	60.00
S1CSMOKEF	4863	1.29	4.62	0.00	60.00
R2CSMOKECH	2034	2.02	0.64	1.00	3.00
S2CSMOKECH	873	1.99	0.60	1.00	3.00

Categorical Variable Codes

Value	R2CSMOKECH
.m:Missing	458
.n:Does not apply	9078
1.Less often	396
2.About the same	1205
3.More often	433

Value	S2CSMOKECH
.m:Missing	168
.n:Does not apply	4611
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
1.Less often	161
2.About the same	561
3.More often	151

How Constructed:

In the HRS core interview, new respondents are asked if they have ever smoked cigarettes (or more than 100 cigarettes in their lifetime; not including pipes, cigars, or e-cigarettes). If the respondent reports that they have ever smoked cigarettes, they are asked if they smoke cigarettes now (not including pipes, cigars, or e-cigarettes). If the respondent reports that they currently smoke cigarettes, they are asked to report the number of cigarettes that they usually smoke per day.

In the HRS core interview, re-interview respondents are asked if they smoke cigarettes now (not including pipes, cigars, or e-cigarettes). If the respondent reports that they currently smoke cigarettes, they are asked to report the number of cigarettes that they usually smoke per day.

Please note that these questions were not asked to re-interview respondents who did not report that they have ever smoked at their baseline interview or in any follow-up interview.

RrCSMOKEF indicates the number of cigarettes that the respondent usually smokes per day. RrCSMOKEF is only available at Round 1. At Round 1, RrCSMOKEF is coded as 0 if the respondent reports that they have never smoked cigarettes. RrCSMOKEF is also coded as 0 if the respondent reports that they do not currently smoke cigarettes. RrCSMOKEF is also coded as 0 if the respondent did not report that they have ever smoked at their baseline interview or in any follow-up interview and these questions were not asked.

Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCSMOKEF is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCSMOKEF indicates the number of cigarettes that the respondent's spouse usually smokes per day. SrCSMOKEF is taken from the spouse's value to RrCSMOKEF. In addition to the special missing values used in RrCSMOKEF, SrCSMOKEF employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

RrCSMOKECH indicates how much the respondent's smoking frequency changed during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to the months before March 2020. RrCSMOKECH is only available at Round 2. At Round 2, respondents are asked if they used cigarettes, e-cigarettes, or other tobacco products more often, about the same, or less often during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to before the pandemic. RrCSMOKECH is coded as 1 if the respondent reports that they used cigarettes, e-cigarettes, or other tobacco products less often during the first year of the pandemic. RrCSMOKECH is coded as 2 if the respondent reports that they used cigarettes, e-cigarettes, or other tobacco products about the same amount during the first year of the pandemic. RrCSMOKECH is coded as 3 if the respondent reports that they used cigarettes, e-cigarettes, or other tobacco products more often during the first year of the pandemic. Special missing value (.n) is assigned if the respondent reports that they did not use cigarettes, e-cigarettes, or other tobacco products before the pandemic and they do not currently use them. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCSMOKECH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCSMOKECH indicates how much the respondent's spouse changed their smoking behavior (i.e. used cigarettes, e-cigarettes, or other tobacco products) during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to the months before March 2020. SrCSMOKECH is taken from the spouse's value to RrCSMOKECH. In addition to the special missing values used in RrCSMOKECH, SrCSMOKECH employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrCSMOKECH if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

The questions related to whether the respondent smokes cigarettes, and if so, how many cigarettes they smoke per day are only asked at Round 1.

The question related to how the respondent's smoking frequency changed during the first year of the pandemic compared to before the pandemic was only asked at Round 2.

Comparability with the RAND HRS/Harmonized HRS

RrCSMOKEF: This variable is comparable to RwSMOKEF in the Harmonized HRS, which also includes RwSTRTSMOK, indicating at which age the respondent started smoking, and other related variables.

HRS Variables Used:

```
RAND HRS:
    R15SMOKEN                   r15smoken:w15 r smokes now
Round 1 COVID-19:
    RC118                       num cigarettes smoked per day
Round 2 COVID-19 Spring:
    H15V_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-USED TOBAC
Round 2 COVID-19 Fall:
    H15V_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-USED TOBAC
```

Section E: Healthcare

Delayed Medical Care

Round	Variable	Label	Type
1	R1CDLYCARE	r1cdlycare:r1 COVID: r dlyd med care	Categ
2	R2CDLYCARE	r2cdlycare:r2 COVID: r dlyd med care since March 2020	Categ
1	S1CDLYCARE	s1cdlycare:r1 COVID: s dlyd med care	Categ
2	S2CDLYCARE	s2cdlycare:r2 COVID: s dlyd med care since March 2020	Categ
1	R1CDLYSURG	r1cdlysurg:r1 COVID: r dlyd med care - surgery	Categ
2	R2CDLYSURG	r2cdlysurg:r2 COVID: r dlyd med care - surgery since March 2	Categ
1	S1CDLYSURG	s1cdlysurg:r1 COVID: s dlyd med care - surgery	Categ
2	S2CDLYSURG	s2cdlysurg:r2 COVID: s dlyd med care - surgery since March 2	Categ
1	R1CDLYDOC	r1cdlydoc:r1 COVID: r dlyd med care - doctor visit	Categ
2	R2CDLYDOC	r2cdlydoc:r2 COVID: r dlyd med care - doctor visit since Mar	Categ
1	S1CDLYDOC	s1cdlydoc:r1 COVID: s dlyd med care - doctor visit	Categ
2	S2CDLYDOC	s2cdlydoc:r2 COVID: s dlyd med care - doctor visit since Mar	Categ
1	R1CDLYRX	r1cdlyrx:r1 COVID: r dlyd med care - fill prescription	Categ
2	R2CDLYRX	r2cdlyrx:r2 COVID: r dlyd med care - fill prescription since	Categ
1	S1CDLYRX	s1cdlyrx:r1 COVID: s dlyd med care - fill prescription	Categ
2	S2CDLYRX	s2cdlyrx:r2 COVID: s dlyd med care - fill prescription since	Categ
1	R1CDLYDEN	r1cdlyden:r1 COVID: r dlyd med care - dentist	Categ
2	R2CDLYDEN	r2cdlyden:r2 COVID: r dlyd med care - dentist since March 20	Categ
1	S1CDLYDEN	s1cdlyden:r1 COVID: s dlyd med care - dentist	Categ
2	S2CDLYDEN	s2cdlyden:r2 COVID: s dlyd med care - dentist since March 20	Categ
1	R1CDLYOTH	r1cdlyoth:r1 COVID: r dlyd med care - dentist/other	Categ
2	R2CDLYOTH	r2cdlyoth:r2 COVID: r dlyd med care - dentist/other since Ma	Categ
1	S1CDLYOTH	s1cdlyoth:r1 COVID: s dlyd med care - dentist/other	Categ
2	S2CDLYOTH	s2cdlyoth:r2 COVID: s dlyd med care - dentist/other since Ma	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CDLYCARE	10270	0.31	0.46	0.00	1.00
R2CDLYCARE	7511	0.39	0.49	0.00	1.00
S1CDLYCARE	4887	0.30	0.46	0.00	1.00
S2CDLYCARE	3710	0.37	0.48	0.00	1.00
R1CDLYSURG	10250	0.04	0.19	0.00	1.00
R2CDLYSURG	7385	0.07	0.26	0.00	1.00
S1CDLYSURG	4876	0.04	0.20	0.00	1.00
S2CDLYSURG	3661	0.06	0.25	0.00	1.00
R1CDLYDOC	10243	0.18	0.38	0.00	1.00
R2CDLYDOC	7361	0.18	0.39	0.00	1.00
S1CDLYDOC	4877	0.17	0.38	0.00	1.00
S2CDLYDOC	3663	0.18	0.38	0.00	1.00

R1CDLYRX	10260	0.02	0.15	0.00	1.00
R2CDLYRX	7349	0.04	0.20	0.00	1.00
S1CDLYRX	4885	0.02	0.14	0.00	1.00
S2CDLYRX	3660	0.03	0.18	0.00	1.00
R1CDLYDEN	10264	0.22	0.42	0.00	1.00
R2CDLYDEN	7372	0.24	0.43	0.00	1.00
S1CDLYDEN	4884	0.22	0.41	0.00	1.00
S2CDLYDEN	3664	0.24	0.43	0.00	1.00
R1CDLYOTH	10269	0.24	0.43	0.00	1.00
R2CDLYOTH	7427	0.26	0.44	0.00	1.00
S1CDLYOTH	4887	0.23	0.42	0.00	1.00
S2CDLYOTH	3688	0.26	0.44	0.00	1.00

Categorical Variable Codes

Value	R1CDLYCARE	R2CDLYCARE
.d:DK	62	
.m:Missing	14	353
.n:Did not need care		3706
.r:Refuse	6	
0.No	7106	4607
1.Yes	3164	2904

Value	S1CDLYCARE	S2CDLYCARE
.d:DK	19	
.m:Missing	5	131
.n:Did not need care		1811
.r:Refuse	3	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	3423	2352
1.Yes	1464	1358

Value	R1CDLYSURG	R2CDLYSURG
.d:DK	79	
.m:Missing	15	457
.n:Did not need care		3728
.r:Refuse	8	
0.No	9854	6859
1.Yes	396	526

Value	S1CDLYSURG	S2CDLYSURG
.d:DK	29	
.m:Missing	5	174
.n:Did not need care		1817
.r:Refuse	4	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4682	3425
1.Yes	194	236

Value	R1CDLYDOC	R2CDLYDOC
.d:DK	87	
.m:Missing	15	481
.n:Did not need care		3728
.r:Refuse	7	
0.No	8435	6027
1.Yes	1808	1334

Value	S1CDLYDOC	S2CDLYDOC
.d:DK	28	
.m:Missing	5	173

.n:Did not need care		1816
.r:Refuse	4	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4042	3016
1.Yes	835	647

Value	R1CDLYRX	R2CDLYRX
.d:DK	69	
.m:Missing	15	489
.n:Did not need care		3732
.r:Refuse	8	
0.No	10008	7039
1.Yes	252	310

Value	S1CDLYRX	S2CDLYRX
.d:DK	20	
.m:Missing	5	178
.n:Did not need care		1814
.r:Refuse	4	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4789	3544
1.Yes	96	116

Value	R1CDLYDEN	R2CDLYDEN
.d:DK	67	
.m:Missing	15	468
.n:Did not need care		3730
.r:Refuse	6	
0.No	7968	5588
1.Yes	2296	1784

Value	S1CDLYDEN	S2CDLYDEN
.d:DK	22	
.m:Missing	5	172
.n:Did not need care		1816
.r:Refuse	3	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	3812	2792
1.Yes	1072	872

Value	R1CDLYOTH	R2CDLYOTH
.d:DK	62	
.m:Missing	15	418
.n:Did not need care		3725
.r:Refuse	6	
0.No	7782	5467
1.Yes	2487	1960

Value	S1CDLYOTH	S2CDLYOTH
.d:DK	19	
.m:Missing	5	150
.n:Did not need care		1814
.r:Refuse	3	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	3742	2742
1.Yes	1145	946

How Constructed:

At Rounds 1 and 2, respondents are asked to report whether they delayed or did not get medical or dental care that they needed since the beginning of the COVID-19 pandemic (since March 2020). At Round 1, the respondent may respond “yes”, they have delayed needed medical or dental care; or “no”, they have not delayed needed medical or dental care. At Round 2, the respondent may respond “yes”, they have delayed needed medical or dental care since the beginning of the pandemic; “no, I did not need care during the pandemic”; or “no, I was able to get the care I needed without delay”.

RrCDLYCARE indicates whether the respondent delayed or did not get needed medical or dental care since the beginning of the COVID-19 pandemic (since March 2020). RrCDLYCARE is coded as 0 if the respondent reports that they did not delay needed medical or dental care since the beginning of the pandemic. RrCDLYCARE is coded as 1 if the respondent reports that they delayed or did not get needed medical or dental care since the beginning of the pandemic. At Round 2, RrCDLYCARE is also coded as 1 if the respondent reports a specific type of needed medical or dental care that was delayed or they did not get. At Round 2, special missing value (.n) is assigned if the respondent reports that they did not need care since the beginning of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDLYCARE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

At Round 1, if the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed surgery. If the respondent reports that they delayed surgery, they are asked to report whether the surgery was a major surgery (which would have required a hospital stay of one or more nights) or an outpatient surgery. At Round 2, if the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed a major surgery that would have required a hospital stay of one or more nights. Also, if the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed an outpatient surgery.

RrCDLYSURG indicates whether the respondent delayed surgery since the beginning of the COVID-19 pandemic (since March 2020). RrCDLYSURG is coded as 0 if the respondent reports that they did not delay needed medical or dental care since the beginning of the pandemic. RrCDLYSURG is also coded as 0 if the respondent reports that they delayed needed medical or dental care since the beginning of the pandemic but they did not delay surgery. RrCDLYSURG is coded as 1 if the respondent reports that they delayed surgery since the beginning of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that they did not need care since the beginning of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDLYSURG is coded as plain missing (.) if the respondent did not participate in the current COVID round.

If the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed a doctor visit.

RrCDLYDOC indicates whether the respondent delayed a doctor visit since the beginning of the COVID-19 pandemic (since March 2020). RrCDLYDOC is coded as 0 if the respondent reports that they did not delay needed medical or dental care since the beginning of the pandemic. RrCDLYDOC is also coded as 0 if the respondent reports that they delayed needed medical or dental care since the beginning of the pandemic but they did not delay a doctor visit. RrCDLYDOC is coded as 1 if the respondent reports that they delayed a doctor visit since the beginning of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that they did not need care since the beginning of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDLYDOC is coded as plain missing (.) if the respondent did not participate in the current COVID round.

If the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed filling a prescription.

RrCDLYRX indicates whether the respondent delayed filling a prescription since the beginning of the COVID-19 pandemic (since March 2020). RrCDLYRX is coded as 0 if the respondent reports that they did not delay needed medical or dental care since the beginning of the pandemic. RrCDLYRX is also coded as 0 if the respondent reports that they delayed needed medical or dental care since the beginning of the pandemic but they did not delay filling a prescription. RrCDLYRX is coded as 1 if the respondent reports that they delayed filling a prescription since the beginning of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that they did not need care since the beginning of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDLYRX is coded as plain missing (.) if the respondent did not participate in the current COVID round.

If the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed dental care.

RrCDLYDEN indicates whether the respondent delayed dental care since the beginning of the COVID-19 pandemic (since March 2020). RrCDLYDEN is coded as 0 if the respondent reports that they did not delay

needed medical or dental care since the beginning of the pandemic. RrCDLYDEN is also coded as 0 if the respondent reports that they delayed needed medical or dental care since the beginning of the pandemic but they did not delay dental care. RrCDLYDEN is coded as 1 if the respondent reports that they delayed dental care since the beginning of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that they did not need care since the beginning of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDLYDEN is coded as plain missing (.) if the respondent did not participate in the current COVID round.

If the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed dental care. Also, if the respondent reports that they delayed needed medical or dental care, then they are asked to report whether they delayed any other types of care (not including surgery, a doctor visit, filling a prescription, or dental care).

RrCDLYOTH indicates whether the respondent delayed dental care or any other type of care (not including surgery, a doctor visit, or filling a prescription) since the beginning of the COVID-19 pandemic (since March 2020). RrCDLYOTH is coded as 0 if the respondent reports that they did not delay needed medical or dental care since the beginning of the pandemic. RrCDLYOTH is also coded as 0 if the respondent reports that they delayed needed medical or dental care since the beginning of the pandemic but they did not delay dental care or any other types of care. RrCDLYOTH is coded as 1 if the respondent reports that they delayed dental care or any other type of care since the beginning of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that they did not need care since the beginning of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCDLYOTH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCDLYCARE indicates whether the respondent's spouse delayed or did not get needed medical or dental care since the beginning of the COVID-19 pandemic (since March 2020). SrCDLYSURG indicates whether the respondent's spouse delayed surgery since the beginning of the COVID-19 pandemic. SrCDLYDOC indicates whether the respondent's spouse delayed a doctor visit since the beginning of the COVID-19 pandemic. SrCDLYRX indicates whether the respondent's spouse delayed filling a prescription since the beginning of the COVID-19 pandemic. SrCDLYDEN indicates whether the respondent's spouse delayed dental care since the beginning of the COVID-19 pandemic. SrCDLYOTH indicates whether the respondent's spouse delayed dental care or any other type of care (not including surgery, a doctor visit, or filling a prescription) since the beginning of the COVID-19 pandemic. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Rounds 1 and 2, respondents are asked to report whether they delayed or did not get medical or dental care that they needed since the beginning of the pandemic (since March 2020). At Round 1, the respondent may respond “yes” or “no”. At Round 2, the respondent may respond “yes”; “no, I did not need care during the pandemic”; or “no, I was able to get the care I needed without delay”.

At Rounds 1 and 2, respondents are asked to report whether they delayed or did not get medical or dental care that they needed since the beginning of the pandemic (since March 2020). As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, if the respondent reports that they delayed needed medical or dental care, then they are asked one question related to whether they delayed any surgery. If the respondent reports that they delayed surgery, then they are asked to report whether the surgery was a major surgery (which would have required a hospital stay of one or more nights) or an outpatient surgery. At Round 2, if the respondent reports that they delayed needed medical or dental care, then they are asked separately whether they delayed a major surgery that would have required a hospital stay of one or more nights or an outpatient surgery.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW579                    delayed care
    RCOVW582                    delay surgery
    RCOVW584                    delay seeing doctor
    RCOVW586                    delay filling rx
    RCOVW587                    delay dental care
    RCOVW588                    delay other
Round 2 COVID-19 Spring:
    C2_21S                      SNC 3/2020 DELAYED/DID NOT GET-CARE OR MEDIC
    C3A_21S                     SNC 3/2020 DELAYED/DID NOT GET-MAJOR SURGERY
    C3B_21S                     SNC 3/2020 DELAYED/DID NOT GET-OUTPATIENT SU
    C3C_21S                     SNC 3/2020 DELAYED/DID NOT GET-DR. VISIT
    C3D_21S                     SNC 3/2020 DELAYED/DID NOT GET-DENTAL CARE
    C3E_21S                     SNC 3/2020 DELAYED/DID NOT GET-A PRESCRIPTIO
    C3F_21S                     SNC 3/2020 DELAYED/DID NOT GET-OTHER TYPES O
Round 2 COVID-19 Fall:
    C2_21F                      SNC 3/2020 DELAYED/DID NOT GET-CARE OR MEDIC
    C3A_21F                     SNC 3/2020 DELAYED/DID NOT GET-MAJOR SURGERY
    C3B_21F                     SNC 3/2020 DELAYED/DID NOT GET-OUTPATIENT SU
    C3C_21F                     SNC 3/2020 DELAYED/DID NOT GET-DR. VISIT
    C3D_21F                     SNC 3/2020 DELAYED/DID NOT GET-DENTAL CARE
    C3E_21F                     SNC 3/2020 DELAYED/DID NOT GET-A PRESCRIPTIO
    C3F_21F                     SNC 3/2020 DELAYED/DID NOT GET-OTHER TYPES O
```

Outcomes of Delayed Medical Care

Round	Variable	Label	Type
2	R2CDLYPHYS	r2cdlyphys:r2 COVID: r dlyd care caused new phys health prob	Categ
2	S2CDLYPHYS	s2cdlyphys:r2 COVID: s dlyd care caused new phys health prob	Categ
2	R2CDLYPHYSW	r2cdlyphysw:r2 COVID: r dlyd care caused worsening of phys h	Categ
2	S2CDLYPHYSW	s2cdlyphysw:r2 COVID: s dlyd care caused worsening of phys h	Categ
2	R2CDLYMENT	r2cdlyment:r2 COVID: r dlyd care caused new ment health prob	Categ
2	S2CDLYMENT	s2cdlyment:r2 COVID: s dlyd care caused new ment health prob	Categ
2	R2CDLYMENTW	r2cdlymentw:r2 COVID: r dlyd care caused worsening of ment h	Categ
2	S2CDLYMENTW	s2cdlymentw:r2 COVID: s dlyd care caused worsening of ment h	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2CDLYPHYS	4634	0.07	0.25	0.00	1.00
S2CDLYPHYS	2213	0.05	0.21	0.00	1.00
R2CDLYPHYSW	4605	0.13	0.33	0.00	1.00
S2CDLYPHYSW	2201	0.11	0.31	0.00	1.00
R2CDLYMENT	4664	0.03	0.17	0.00	1.00
S2CDLYMENT	2228	0.02	0.15	0.00	1.00
R2CDLYMENTW	4664	0.04	0.20	0.00	1.00
S2CDLYMENTW	2227	0.03	0.16	0.00	1.00

Categorical Variable Codes

Value	R2CDLYPHYS
.d:DK	232
.m:Missing	416
.n:Did not need care	2769
.x:No delayed care	3519
0.No	4323
1.Yes	311

Value	S2CDLYPHYS
.d:DK	95
.m:Missing	155
.n:Did not need care	1357
.u:Unmar	3974
.v:SP NR	1137
.x:No delayed care	1832
.z:Not in wave 15	807
0.No	2108
1.Yes	105

Value	R2CDLYPHYSW
.d:DK	235
.m:Missing	416

```
.n:Did not need care       |                        2790
.x:No delayed care         |                        3524
0.No                       |                        4020
1.Yes                      |                         585

Value----------------------|                  S2CDLYPHYSW
.d:DK                      |                          93
.m:Missing                 |                         157
.n:Did not need care       |                        1368
.u:Unmar                   |                        3974
.v:SP NR                   |                        1137
.x:No delayed care         |                        1833
.z:Not in wave 15          |                         807
0.No                       |                        1964
1.Yes                      |                         237

Value----------------------|                   R2CDLYMENT
.d:DK                      |                         130
.m:Missing                 |                         459
.n:Did not need care       |                        2790
.x:No delayed care         |                        3527
0.No                       |                        4517
1.Yes                      |                         147

Value----------------------|                   S2CDLYMENT
.d:DK                      |                          43
.m:Missing                 |                         180
.n:Did not need care       |                        1367
.u:Unmar                   |                        3974
.v:SP NR                   |                        1137
.x:No delayed care         |                        1834
.z:Not in wave 15          |                         807
0.No                       |                        2180
1.Yes                      |                          48

Value----------------------|                  R2CDLYMENTW
.d:DK                      |                         128
.m:Missing                 |                         461
.n:Did not need care       |                        2792
.x:No delayed care         |                        3525
0.No                       |                        4470
1.Yes                      |                         194

Value----------------------|                  S2CDLYMENTW
.d:DK                      |                          44
.m:Missing                 |                         181
.n:Did not need care       |                        1367
.u:Unmar                   |                        3974
.v:SP NR                   |                        1137
.x:No delayed care         |                        1833
.z:Not in wave 15          |                         807
0.No                       |                        2167
1.Yes                      |                          60
```

How Constructed:

At Round 2, if the respondent reports that they delayed needed medical or dental care, then they are asked whether the delay caused "a new physical health problem", "worsening of an existing physical health problem", "a new mental health problem", and/or "worsening of an existing mental health problem".

RrCDLYPHYS, RrCDLYPHYSW, RrCDLYMENT, and RrCDLYMENTW indicate whether the respondent reports that delaying needed medical or dental care caused these new or worsening health problems. These variables are only available at Round 2. A code of 0 is assigned if the respondent reports that delaying needed medical or dental care did not cause the new or worsening health problem. A code of 1 is assigned if the respondent reports that delaying needed medical or dental care caused the new or worsening health problem. Special missing value (.n) is assigned if the respondent reports that they did not need medical or dental care. Special missing value (.x) is assigned if the respondent reports that they did not experience delayed needed medical or dental care. Special missing value (.d) is assigned if the respondent reports that they are not sure if delayed needed medical or dental care caused the new or worsening health problem. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. These variables are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCDLYPHYS indicates whether the respondent reports that delaying needed medical or dental care caused a new physical health problem. RrCDLYPHYSW indicates whether the respondent reports that delaying needed medical or dental care caused the worsening of an existing physical health problem. RrCDLYMENT indicates whether the respondent reports that delaying needed medical or dental care caused a new mental health problem. RrCDLYMENTW indicates whether the respondent reports that delaying needed medical or dental care caused the worsening of an existing mental health problem.

SrCDLYPHYS indicates whether the respondent's spouse reports that delaying needed medical or dental care caused a new physical health problem. SrCDLYPHYSW indicates whether the respondent's spouse reports that delaying needed medical or dental care caused the worsening of an existing physical health problem. SrCDLYMENT indicates whether the respondent's spouse reports that delaying needed medical or dental care caused a new mental health problem. SrCDLYMENTW indicates whether the respondent's spouse reports that delaying needed medical or dental care caused the worsening of an existing mental health problem. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Unlike Round 2, Round 1 does not ask respondents to report whether delaying needed medical or dental care caused a new or worsening health problem.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 2 COVID-19 Spring:
    C2_21S                      SNC 3/2020 DELAYED/DID NOT GET-CARE OR MEDIC
    C5A_21S                     MISSED/DELAYED CARE CAUSE-NEW PHYSICAL HEALT
    C5B_21S                     MISSED/DELAYED CARE CAUSE-EXISTING PHYSICAL
    C5C_21S                     MISSED/DELAYED CARE CAUSE-NEW MENTAL HEALTH
    C5D_21S                     MISSED/DELAYED CARE CAUSE-EXISTING MENTAL PR
Round 2 COVID-19 Fall:
    C2_21F                      SNC 3/2020 DELAYED/DID NOT GET-CARE OR MEDIC
    C5A_21F                     MISSED/DELAYED CARE CAUSE-NEW PHYSICAL HEALT
    C5B_21F                     MISSED/DELAYED CARE CAUSE-EXISTING PHYSICAL
    C5C_21F                     MISSED/DELAYED CARE CAUSE-NEW MENTAL HEALTH
    C5D_21F                     MISSED/DELAYED CARE CAUSE-EXISTING MENTAL PR
```

Doctors Visit Through Electronic Means

Round	Variable	Label	Type
2	R2CEDOCTOR	r2cedoctor:r2 COVID: r electronic doctor visit	Categ
2	S2CEDOCTOR	s2cedoctor:r2 COVID: s electronic doctor visit	Categ
2	R2CEDOCFUT_H	r2cedocfut_h:r2 COVID: r likely to use electronic doctor vis	Categ
2	S2CEDOCFUT_H	s2cedocfut_h:r2 COVID: s likely to use electronic doctor vis	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2CEDOCTOR	11337	0.46	0.50	0.00	1.00
S2CEDOCTOR	5565	0.46	0.50	0.00	1.00
R2CEDOCFUT_H	11321	2.62	1.02	1.00	4.00
S2CEDOCFUT_H	5560	2.66	1.00	1.00	4.00

Categorical Variable Codes

Value	R2CEDOCTOR
.m:Missing	233
0.No	6107
1.Yes	5230

Value	S2CEDOCTOR
.m:Missing	87
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.No	3003
1.Yes	2562

Value	R2CEDOCFUT_H
.m:Missing	249
1.Not at all likely	1810
2.Not very likely	3356
3.Somewhat likely	3450
4.Very likely	2705

Value	S2CEDOCFUT_H
.m:Missing	92
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
1.Not at all likely	796
2.Not very likely	1646
3.Somewhat likely	1770
4.Very likely	1348

How Constructed:

At Round 2, respondents are asked to report whether they have had a telephone or video visit with a doctor instead of an in-person visit with a doctor since the beginning of the pandemic.

RrCEDOCTOR indicates whether the respondent had a doctor visit through electronic means since the beginning of the COVID-19 pandemic (since March 2020). RrCEDOCTOR is only available at Round 2. At Round 2, respondents are asked to report if they have had a telephone or video visit with a doctor instead of an in-person visit with a doctor since the beginning of the pandemic. RrCEDOCTOR is coded as 0 if the

respondent reports that they have not had a telephone or video visit with a doctor since the beginning of the pandemic. RrCEDOCTOR is coded as 1 if the respondent reports that they have had a telephone or video visit with a doctor since the beginning of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCEDOCTOR is coded as plain missing (.) if the respondent did not participate in the current COVID round.

At Round 2, respondents are asked to report how likely they are to use telephone or video visits with a doctor in the future.

RrCEDOCFUT_H indicates the likelihood that the respondent will have a doctor visit through electronic means in the future. RrCEDOCFUT_H is only available at Round 2. RrCEDOCFUT_H is coded as 1 if the respondent reports that they are not at all likely to use telephone or video visits with a doctor in the future. RrCEDOCFUT_H is coded as 2 if the respondent reports that they are not very likely to use telephone or video visits with a doctor in the future. RrCEDOCFUT_H is coded as 3 if the respondent reports that they are somewhat likely to use telephone or video visits with a doctor in the future. RrCEDOCFUT_H is coded as 4 if the respondent reports that they are very likely to use telephone or video visits with a doctor in the future. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCEDOCFUT_H is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCEDOCTOR indicates whether the respondent's spouse had a doctor visit through electronic means since the beginning of the COVID-19 pandemic (since March 2020). SrCEDOCFUT_H indicates the likelihood that the respondent's spouse will have a doctor visit through electronic means in the future. SrCEDOCTOR and SrCEDOCFUT_H are taken from the spouse's values to RrCEDOCTOR and RrCEDOCFUT_H, respectively. In addition to the special missing values used in RrCEDOCTOR and RrCEDOCFUT_H, the SrCEDOCTOR and SrCEDOCFUT_H employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being couples in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Unlike Round 2, Round 1 does not ask respondents to report whether they have had a telephone or video visit with a doctor since the beginning of the COVID-19 pandemic (since March 2020).

Unlike Round 2, Round 1 does not ask respondents to report how likely they are to use telephone or video visits with a doctor in the future.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 2 COVID-19 Spring:
    C6_21S                    SNC 3/2020 HAD TELEPHONE/VIDEO DR. VISIT
    C7_21S                    HOW LIKELY USE TELEPHONE/VIDEO WITH DR. IN T
Round 2 COVID-19 Fall:
    C6_21F                    SNC 3/2020 HAD TELEPHONE/VIDEO DR. VISIT
    C7_21F                    HOW LIKELY USE TELEPHONE/VIDEO WITH DR. IN T
```

Section F: Economics

Concern About Financial Situation

Round	Variable	Label	Type
1	R1CCONCFIN_H	r1cconcfin_h:r1 COVID: r concern financial situation	Cont
2	R2CCONCFIN_H	r2cconcfin_h:r2 COVID: r concern financial situation 1st yr	Cont
1	S1CCONCFIN_H	s1cconcfin_h:r1 COVID: s concern financial situation	Cont
2	S2CCONCFIN_H	s2cconcfin_h:r2 COVID: s concern financial situation	Cont
1	R1CCONCFINZ	r1cconcfinz:r1 COVID: r concern financial situation z-score	Cont
2	R2CCONCFINZ	r2cconcfinz:r2 COVID: r concern financial situation 1st yr p	Cont
1	S1CCONCFINZ	s1cconcfinz:r1 COVID: s concern financial situation z-score	Cont
2	S2CCONCFINZ	s2cconcfinz:r2 COVID: s concern financial situation 1st yr p	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CCONCFIN_H	4552	3.93	3.34	0.00	10.00
R2CCONCFIN_H	11269	3.68	3.56	0.00	10.00
S1CCONCFIN_H	2618	3.74	3.27	0.00	10.00
S2CCONCFIN_H	5565	3.33	3.40	0.00	10.00
R1CCONCFINZ	4552	0.00	1.00	-1.18	1.82
R2CCONCFINZ	11269	0.00	1.00	-1.03	1.78
S1CCONCFINZ	2618	-0.06	0.98	-1.18	1.82
S2CCONCFINZ	5565	-0.10	0.96	-1.03	1.78

How Constructed:

At Rounds 1 and 2, respondents are asked to rate their level of concern about their financial situation due to the COVID-19 pandemic on a scale of 0 to 10, with 0 being "not at all worried" and 10 being "very worried". It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to rate their level of concern about their current financial situation, while Round 2 asks respondents to rate their level of concern about their financial situation during the first year of the pandemic (from March 2020 to March 2021). As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCCONCFIN_H and RrCCONCFINZ indicate the respondent's level of concern about their financial situation due to the COVID-19 pandemic. RrCCONCFINZ is a z-scored version of the respondent's concern about their financial situation, and is calculated by z-scoring RrCCONCFIN_H. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCONCFIN_H and RrCCONCFINZ are coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCONCFIN_H and SrCCONCFINZ indicate the respondent's spouse's level of concern about their financial situation due to the COVID-19 pandemic. SrCCONCFIN_H and SrCCONCFINZ are taken from the spouse’s values to RrCCONCFIN_H and RrCCONCFINZ, respectively. In addition to the special missing values used in RrCCONCFIN_H and RrCCONCFINZ, SrCCONCFIN_H and SrCCONCFINZ employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Rounds 1 and 2, respondents are asked to rate their level of concern about their financial situation due to the COVID-19 pandemic on a scale of 0 to 10, with 0 being "not at all worried" and 10 being "very worried". At Round 1, respondents are asked to rate their level of concern about their current financial situation, while Round 2 asks respondents to rate their level of concern about their financial situation during the first year of the pandemic (from March 2020 to March 2021). As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB055C                     q55c. financial situation
Round 2 COVID-19 Spring:
    H1C_21S                     DURING FIRST YEAR OF PANDEMIC WORRIED-ABOUT
Round 2 COVID-19 Fall:
    H1C_21F                     DURING FIRST YEAR OF PANDEMIC WORRIED-ABOUT
```

Change in Income

Round	Variable	Label	Type
1	R1CINCCH	r1cincch:r1 COVID: r income changed	Categ
2	R2CINCCH	r2cincch:r2 COVID: r income changed since March 2020	Categ
1	S1CINCCH	s1cincch:r1 COVID: s income changed	Categ
2	S2CINCCH	s2cincch:r2 COVID: s income changed since March 2020	Categ
1	R1CICHEMP	r1cichemp:r1 COVID: r income changed - work	Categ
2	R2CICHEMP	r2cichemp:r2 COVID: r income changed since March 2020 - work	Categ
1	S1CICHEMP	s1cichemp:r1 COVID: s income changed - work	Categ
2	S2CICHEMP	s2cichemp:r2 COVID: s income changed since March 2020 - work	Categ
1	R1CICHRET	r1cichret:r1 COVID: r income changed - retirement plan	Categ
2	R2CICHRET	r2cichret:r2 COVID: r income changed since March 2020 - reti	Categ
1	S1CICHRET	s1cichret:r1 COVID: s income changed - retirement plan	Categ
2	S2CICHRET	s2cichret:r2 COVID: s income changed since March 2020 - reti	Categ
1	R1CICHSEMP	r1cichsemp:r1 COVID: r income changed - business	Categ
2	R2CICHSEMP	r2cichsemp:r2 COVID: r income changed since March 2020 - bus	Categ
1	S1CICHSEMP	s1cichsemp:r1 COVID: s income changed - business	Categ
2	S2CICHSEMP	s2cichsemp:r2 COVID: s income changed since March 2020 - bus	Categ
1	R1CICHOTH	r1cichoth:r1 COVID: r income changed - other	Categ
2	R2CICHOTH	r2cichoth:r2 COVID: r income changed since March 2020 - othe	Categ
1	S1CICHOTH	s1cichoth:r1 COVID: s income changed - other	Categ
2	S2CICHOTH	s2cichoth:r2 COVID: s income changed since March 2020 - othe	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CINCCH	10254	1.86	0.47	1.00	3.00
R2CINCCH	11148	1.97	0.52	1.00	3.00
S1CINCCH	4876	1.85	0.48	1.00	3.00
S2CINCCH	5507	1.97	0.52	1.00	3.00
R1CICHEMP	10231	0.17	0.38	0.00	1.00
R2CICHEMP	10346	0.20	0.40	0.00	1.00
S1CICHEMP	4867	0.19	0.39	0.00	1.00
S2CICHEMP	5171	0.21	0.41	0.00	1.00
R1CICHRET	10231	0.03	0.17	0.00	1.00
R2CICHRET	10204	0.10	0.30	0.00	1.00
S1CICHRET	4867	0.03	0.17	0.00	1.00
S2CICHRET	5118	0.10	0.30	0.00	1.00
R1CICHSEMP	10231	0.04	0.20	0.00	1.00
R2CICHSEMP	9182	0.08	0.27	0.00	1.00
S1CICHSEMP	4867	0.05	0.22	0.00	1.00
S2CICHSEMP	4566	0.08	0.28	0.00	1.00

R1CICHOTH	10231	0.04	0.19	0.00	1.00
R2CICHOTH	9941	0.10	0.30	0.00	1.00
S1CICHOTH	4867	0.03	0.18	0.00	1.00
S2CICHOTH	4905	0.10	0.30	0.00	1.00

Categorical Variable Codes

Value	R1CINCCH	R2CINCCH
.d:DK	55	
.m:Missing	17	422
.r:Refuse	26	
1.Went down	1960	1700
2.Stayed the same	7760	8136
3.Went up	534	1312

Value	S1CINCCH	S2CINCCH
.d:DK	23	
.m:Missing	6	145
.r:Refuse	9	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Went down	986	835
2.Stayed the same	3646	4001
3.Went up	244	671

Value	R1CICHEMP	R2CICHEMP
.d:DK	69	
.m:Missing	17	544
.n:Does not apply		680
.r:Refuse	35	
0.No	8463	8308
1.Yes	1768	2038

Value	S1CICHEMP	S2CICHEMP
.d:DK	28	
.m:Missing	6	193
.n:Does not apply		288
.r:Refuse	13	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	3964	4096
1.Yes	903	1075

Value	R1CICHRET	R2CICHRET
.d:DK	69	
.m:Missing	17	558
.n:Does not apply		808
.r:Refuse	35	
0.No	9936	9188
1.Yes	295	1016

Value	S1CICHRET	S2CICHRET
.d:DK	28	
.m:Missing	6	197
.n:Does not apply		337
.r:Refuse	13	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4728	4588
1.Yes	139	530

Value	R1CICHSEMP	R2CICHSEMP
.d:DK	69	
.m:Missing	17	646
.n:Does not apply		1742
.r:Refuse	35	
0.No	9782	8449
1.Yes	449	733

Value	S1CICHSEMP	S2CICHSEMP
.d:DK	28	
.m:Missing	6	239
.n:Does not apply		847
.r:Refuse	13	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4622	4182
1.Yes	245	384

Value	R1CICHOTH	R2CICHOTH
.d:DK	69	
.m:Missing	17	552
.n:Does not apply		1077
.r:Refuse	35	
0.No	9830	8929
1.Yes	401	1012

Value	S1CICHOTH	S2CICHOTH
.d:DK	28	
.m:Missing	6	208
.n:Does not apply		539
.r:Refuse	13	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4705	4428
1.Yes	162	477

How Constructed:

At Rounds 1 and 2, respondents are asked to report whether their income has gone up, down, or stayed the same due to the COVID-19 pandemic. If the respondent reports that their income has changed due to the pandemic (gone up or down), in Round 1, they are then asked to report which of the different types of income - earnings from work, income from retirement plans or other assets, income from business, and income from another source – have changed due to the COVID-19 pandemic, while in Round 2, they are asked whether each type of income has gone up, down, or stayed the same. At Round 2, respondents are also asked to report whether their income from the government, not counting impact checks, has gone up, down, or stayed the same due to the COVID-19 pandemic. At Round 2, the respondent may also report that their household does not have the specific type of income. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report whether their income has gone up, down, or stayed the same since the beginning of the pandemic, while Round 2 asks respondents to report whether their income has gone up, down, or stayed the same since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCINCCH indicates how the respondent's income has changed due to the COVID-19 pandemic. RrCINCCH is coded as 1 if the respondent reports that their income went down since the start of the pandemic. RrCINCCH is coded as 2 if the respondent reports that their income stayed about the same since the start of the pandemic. RrCINCCH is coded as 3 if the respondent reports that their income went up since the start of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCINCCH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCICHEMP indicates whether the respondent's earnings from work changed due to the COVID-19 pandemic. RrCICHEMP is coded as 0 if the respondent reports that their income has stayed about the same since the start of the pandemic. RrCICHEMP is also coded as 0 if the respondent reports that their income changed since the start of the pandemic, but they do not report that their earnings from work changed. RrCICHEMP is coded as 1 if the respondent reports that their earnings from work changed (either increased or decreased) since the start of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that their household does not have income derived from work. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCICHEMP is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCICHRET indicates whether the respondent's income from retirement plans or other assets changed due to the COVID-19 pandemic. RrCICHRET is coded as 0 if the respondent reports that their income has stayed about the same since the start of the pandemic. RrCICHRET is also coded as 0 if the respondent reports

that their income changed since the start of the pandemic, but they do not report that their income from retirement plans or other assets changed. RrCICHRET is coded as 1 if the respondent reports that their income from retirement plans or other assets changed (either increased or decreased) since the start of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that their household does not have income derived from retirement plans or other assets. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCICHRET is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCICHSEMP indicates whether the respondent's income from their business changed due to the COVID-19 pandemic. RrCICHSEMP is coded as 0 if the respondent reports that their income has stayed about the same since the start of the pandemic. RrCICHSEMP is also coded as 0 if the respondent reports that their income changed since the start of the pandemic, but they do not report that their income from their business changed. RrCICHSEMP is coded as 1 if the respondent reports that their income from their business changed (either increased or decreased) since the start of the pandemic. At Round 2, special missing value (.n) is assigned if the respondent reports that their household does not have income derived from their business. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCICHSEMP is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCICHOTH indicates whether the respondent's income from other sources changed due to the COVID-19 pandemic. At Round 1, RrCICHOTH is coded as 0 if the respondent reports that their income has stayed about the same since the start of the pandemic. At Round 1, RrCICHOTH is also coded as 0 if the respondent reports that their income changed since the start of the pandemic, but they do not report that their income from other sources changed. At Round 1, RrCICHOTH is coded as 1 if the respondent reports that their income from other sources changed since the start of the pandemic. At Round 2, RrCICHOTH is coded as 0 if the respondent reports that their income has stayed about the same since the start of the pandemic. At Round 2, RrCICHOTH is also coded as 0 if the respondent reports that their income changed since the start of the pandemic, but they do not report that their income from the government, not counting the impact checks, or income from other sources changed. At Round 2, RRCICHOTH is coded as 1 if the respondent reports that their income changed since the start of the pandemic, and reports that their income from the government, not counting the impact checks, or income from other sources changed (either increased or decreased). At Round 2, special missing value (.n) is assigned if the respondent reports that their household does not have income derived from other sources. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCICHOTH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCINCCH indicates how the respondent's spouse's income has changed due to the COVID-19 pandemic. SrCICHEMP indicates whether the respondent's spouse's earnings from work changed due to the pandemic. SrCICHRET indicates whether the respondent's spouse's income from retirement plans or other assets changed due to the pandemic. SrCICHSEMP indicates whether the respondent's spouse's income from their business changed due to the pandemic. SrCICHOTH indicates whether the respondent's spouse's income from other sources changed due to the pandemic. SrCINCCH, SrCICHEMP, SrCICHRET, SrCICHSEMP, and SrCICHOTH are taken from the spouse's values to RrCINCCH, RrCICHEMP, RrCICHRET, RrCICHSEMP, and RrCICHOTH, respectively. In addition to the special missing values used in RrCINCCH, RrCICHEMP, RrCICHRET, RrCICHSEMP, and RrCICHOTH, SrCINCCH, SrCICHEMP, SrCICHRET, SrCICHSEMP, and SrCICHOTH employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Round 1, respondents are asked to report whether their income has gone up, down, or stayed the same since the beginning of the pandemic, while Round 2 asks respondents to report whether their income has gone up, down, or stayed the same since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, after respondents have reported that their income has gone up or down, they are asked to select the types of income that have changed. At Round 2, after respondents have reported that their income has gone up or down, they are asked whether each type of income has gone up, down, stayed the same, or if they do not have that particular type of income.

At Round 2, respondents are asked to report whether their income from the government, not counting impact checks, has gone up, down, or stayed the same due to the COVID-19 pandemic.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW619                    financial situation change
    RCOVW620M1                  which income changed - 1
    RCOVW620M2                  which income changed - 2
    RCOVW620M3                  which income changed - 3
Round 2 COVID-19 Spring:
    F1_21S                      HOUSEHOLD INCOME CHANGE SINCE 3/2020
    F2A_21S                     HOW DID INCOME CHANGE-EARNINGS FROM WORK
    F2B_21S                     HOW DID INCOME CHANGE-RETIREMENT PLANS/OTH A
    F2C_21S                     HOW DID INCOME CHANGE-BUSINESS INCOME
    F2D_21S                     HOW DID INCOME CHANGE-3/2020-3/2021 GOVERNME
    F2E_21S                     HOW DID INCOME CHANGE-OTHER/SPECIFY-1
Round 2 COVID-19 Fall:
    F1_21F                      HOUSEHOLD INCOME CHANGE SINCE 3/2020
    F2A_21F                     HOW DID INCOME CHANGE-EARNINGS FROM WORK
    F2B_21F                     HOW DID INCOME CHANGE-RETIREMENT PLANS/OTH A
    F2C_21F                     HOW DID INCOME CHANGE-BUSINESS INCOME
    F2D_21F                     HOW DID INCOME CHANGE-3/2020-3/2021 GOVERNME
    F2E_21F                     HOW DID INCOME CHANGE-OTHER/SPECIFY-1
```

Change in Spending

Round	Variable	Label	Type
1	HH1CSPNDCH	hh1cspendch:r1 COVID: hhold spending changed	Categ
2	HH2CSPNDCH	hh2cspendch:r2 COVID: hhold spending changed since March 202	Categ
1	HH1CSPNDDEC	hh1cspenddec:r1 COVID: hhold spending decreased	Categ
2	HH2CSPNDDEC	hh2cspenddec:r2 COVID: hhold spending decreased since March	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CSPNDCH	10285	2.01	0.64	1.00	3.00
HH2CSPNDCH	11165	2.10	0.65	1.00	3.00
HH1CSPNDDEC	10285	0.20	0.40	0.00	1.00
HH2CSPNDDEC	11165	0.17	0.37	0.00	1.00

Categorical Variable Codes

Value	HH1CSPNDCH	HH2CSPNDCH
.d:DK	33	
.m:Missing	17	405
.r:Refuse	17	
1.Went down	2068	1871
2.Stayed the same	6080	6352
3.Went up	2137	2942

Value	HH1CSPNDDEC	HH2CSPNDDEC
.d:DK	33	
.m:Missing	17	405
.r:Refuse	17	
0.No	8217	9294
1.Yes	2068	1871

How Constructed:

At Rounds 1 and 2, respondents are asked to report whether their household's spending has gone up, down, or stayed the same due to the COVID-19 pandemic. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report whether their household's spending has gone up, down, or stayed the same since the beginning of the pandemic, while Round 2 asks respondents to report whether their household's spending has gone up, down, or stayed the same since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

HHrCSPNDCH indicates how the respondent's household's spending has changed due to the COVID-19 pandemic. HHrCSPNDCH is coded as 1 if the respondent reports that their household spending went down since the start of the pandemic. HHrCSPNDCH is coded as 2 if the respondent reports that their household spending stayed about the same since the start of the pandemic. HHrCSPNDCH is coded as 3 if the respondent reports that their household spending went up since the start of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HHrCSPNDCH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

HHrCSPNDDEC indicates whether the respondent's household spending has decreased due to the COVID-19 pandemic. HHrCSPNDDEC is coded as 0 if the respondent reports that their household spending went up or stayed about the same since the start of the pandemic. HHrCSPNDDEC is coded as 1 if the respondent reports that their household spending went down since the start of the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HHrCSPNDDEC is coded as plain missing (.) if the respondent did not participate in the current COVID round.

Cross Round Differences in HRS

At Round 1, respondents are asked to report whether their household's spending has gone up, down, or stayed the same since the beginning of the pandemic, while Round 2 asks respondents to report whether their household's spending has gone up, down, or stayed the same since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW622                    household spending
Round 2 COVID-19 Spring:
    F3_21S                      HOUSEHOLD SPENDING SINCE 3/2020
Round 2 COVID-19 Fall:
    F3_21F                      HOUSEHOLD SPENDING SINCE 3/2020
```

Material Hardships During Pandemic

Round	Variable	Label	Type
1	R1CMISSBILL	r1cmissbill:r1 COVID: r missed bills	Categ
2	R2CMISSBILL	r2cmissbill:r2 COVID: r missed bills since March 2020	Categ
1	S1CMISSBILL	s1cmissbill:r1 COVID: s missed bills	Categ
2	S2CMISSBILL	s2cmissbill:r2 COVID: s missed bills since March 2020	Categ
1	R1CNOFOOD	r1cnofood:r1 COVID: r did not have enough food	Categ
2	R2CNOFOOD	r2cnofood:r2 COVID: r did not have enough food since March 2	Categ
1	S1CNOFOOD	s1cnofood:r1 COVID: s did not have enough food	Categ
2	S2CNOFOOD	s2cnofood:r2 COVID: s did not have enough food since March 2	Categ
1	R1CFOODAVL	r1cfoodavl:r1 COVID: r food availability problems	Categ
2	R2CFOODAVL	r2cfoodavl:r2 COVID: r food availability problems since Marc	Categ
1	S1CFOODAVL	s1cfoodavl:r1 COVID: s food availability problems	Categ
2	S2CFOODAVL	s2cfoodavl:r2 COVID: s food availability problems since Marc	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CMISSBILL	10261	0.16	0.37	0.00	1.00
R2CMISSBILL	11274	0.21	0.41	0.00	1.00
S1CMISSBILL	4878	0.13	0.34	0.00	1.00
S2CMISSBILL	5561	0.15	0.36	0.00	1.00
R1CNOFOOD	10261	0.09	0.29	0.00	1.00
R2CNOFOOD	11158	0.14	0.35	0.00	1.00
S1CNOFOOD	4878	0.07	0.26	0.00	1.00
S2CNOFOOD	5527	0.10	0.30	0.00	1.00
R1CFOODAVL	10261	0.16	0.37	0.00	1.00
R2CFOODAVL	11139	0.18	0.39	0.00	1.00
S1CFOODAVL	4878	0.15	0.35	0.00	1.00
S2CFOODAVL	5519	0.15	0.35	0.00	1.00

Categorical Variable Codes

Value	R1CMISSBILL	R2CMISSBILL
.d:DK	58	
.m:Missing	17	296
.r:Refuse	16	
0.No	8600	8897
1.Yes	1661	2377

Value	S1CMISSBILL	S2CMISSBILL
.d:DK	21	
.m:Missing	6	91
.r:Refuse	9	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4242	4709
1.Yes	636	852

Value	R1CNOFOOD	R2CNOFOOD
.d:DK	58	
.m:Missing	17	412
.r:Refuse	16	
0.No	9297	9545
1.Yes	964	1613

Value	S1CNOFOOD	S2CNOFOOD
.d:DK	21	
.m:Missing	6	125
.r:Refuse	9	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4519	4990
1.Yes	359	537

Value	R1CFOODAVL	R2CFOODAVL
.d:DK	58	
.m:Missing	17	431
.r:Refuse	16	
0.No	8605	9080
1.Yes	1656	2059

Value	S1CFOODAVL	S2CFOODAVL
.d:DK	21	
.m:Missing	6	133
.r:Refuse	9	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	4161	4710
1.Yes	717	809

How Constructed:

At Round 1, respondents are asked to report whether they experienced material hardships during the COVID-19 pandemic. At Round 1, respondents can report either "yes" or "no" to having experienced the specific hardship during the pandemic. At Round 2, respondents are asked to report how often they experienced individual material hardships since March 2020. At Round 2, respondents are asked to report how often they experienced the specific hardship during the pandemic using the following options: "never", "sometimes", "often", or "always or nearly always". The hardships in both rounds include: missed any regular payments on rent or mortgage, missed any regular payments on credit cards or other debt, missed any regular payments such as utilities or insurance, could not pay medical bills, didn't have enough money to buy food, had trouble buying food even though had money, or any other financial hardship not listed. It is also important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report whether they experienced any material hardships since the beginning of the pandemic, while Round 2 asks respondents to report how often they experienced material hardships since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCMISSBILL indicates whether the respondent missed any bills during the COVID-19 pandemic. At Round 1, RrCMISSBILL is coded as 0 if the respondent reports that they did not miss any regular payments on rent or mortgage, missed any regular payments on credit cards or other debt, missed any other regular payments such as utilities or insurance, or could not pay medical bills during the pandemic. At Round 1, RrCMISSBILL is coded as 1 if the respondent reports that they missed any regular payments on rent or mortgage, missed any regular payments on credit cards or other debit, missed any other regular payments such as utilities or insurance, or could not pay medical bills during the pandemic. At Round 2, RrCMISSBILL is coded as 0 if the respondent reports that they never missed any regular payments on rent or mortgage, missed any regular payments on credit cards or other debt, missed any other regular payments such as utilities or insurance, or could not pay medical bills during the pandemic. At Round 2, RrCMISSBILL is coded as 1 if the respondent reports that they sometimes, often, or always or nearly always missed any regular payments on rent or mortgage, missed any regular payments on credit cards or other debt, missed any other regular payments such as utilities or insurance, or could not pay medical bills during the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCMISSBILL is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCNOFOOD indicates whether the respondent ever did not have enough money to buy food during the COVID-19 pandemic. RrCNOFOOD is coded as 0 if the respondent reports that they never did not have enough money to buy food during the pandemic. At Round 1, RrCNOFOOD is coded as 1 if the respondent reports that they did not have enough money to buy food during the pandemic. At Round 2, RrCNOFOOD is coded as 1 if the respondent reports that they sometimes, often, or always or nearly always did not have enough money to buy food during the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCNOFOOD is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCFOODAVL indicates whether the respondent experienced food availability problems during the COVID-19 pandemic. At Round 1, RrCFOODAVL is coded as 0 if the respondent reports that they did not have trouble buying food even though they had money during the pandemic. At Round 1, RrCFOODAVL is coded as 1 if the respondent reports that they had trouble buying food even though they had enough money during the pandemic. At Round 2, RrCFOODAVL is coded as 0 if the respondent reports that they never had trouble buying food even though they had money during the pandemic. At Round 2, RrCFOODAVL is coded as 1 if the respondent reports that they sometimes, often, or always or nearly always had trouble buying food even though they had enough money during the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCFOODAVL is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCMISSBILL indicates whether the respondent's spouse missed any bills during the COVID-19 pandemic. SrCNOFOOD indicates whether the respondent's spouse ever did not have enough money to buy food during the COVID-19 pandemic. SrCFOODAVL indicates whether the respondent's spouse experienced food availability problems during the pandemic. SrCMISSBILL, SrCNOFOOD, and SrCFOODAVL are taken from the spouse's values to RrCMISSBILL, RrCNOFOOD, and RrCFOODAVL, respectively. In addition to the special missing values used in RrCMISSBILL, RrCNOFOOD, and RrCFOODAVL, SrCMISSBILL, SrCNOFOOD, and SrCFOODAVL employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Round 1, respondents are asked to report whether they experienced material hardships during the COVID-19 pandemic. At Round 1, respondents can report either "yes" or "no" to having experienced the specific hardship during the pandemic. At Round 2, respondents are asked to report how often they experienced each specific hardship since March 2020 using the following options: "never", "sometimes", "often", or "always or nearly always".

At Round 1, respondents are asked to report whether they experienced any material hardships since the beginning of the pandemic, while Round 2 asks respondents to report how often they experienced material hardships since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

No comparable variable is available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW623M1                  financial issues experienced - 1
    RCOVW623M2                  financial issues experienced - 2
    RCOVW623M3                  financial issues experienced - 3
    RCOVW623M4                  financial issues experienced - 4
    RCOVW623M5                  financial issues experienced - 5
    RCOVW623M6                  financial issues experienced - 6
    RCOVW623M7                  financial issues experienced - 7
Round 2 COVID-19 Spring:
    F4A_21S                     SINCE MARCH 2020-MISSED RENT/MORTGAGE PAYMEN
    F4B_21S                     SINCE MARCH 2020-MISSED CREDIT CARD OR OTHER
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    F4C_21S                     SINCE MARCH 2020-MISSED UTILITY OR INSURANCE
    F4D_21S                     SINCE MARCH 2020-UNABLE TO PAY MEDICAL BILL
    F4E_21S                     SINCE MARCH 2020-UNABLE TO AFFORD FOOD
    F4F_21S                     SINCE MARCH 2020-TROUBLE FINDING FOOD TO PUR
Round 2 COVID-19 Fall:
    F4A_21F                     SINCE MARCH 2020-MISSED RENT/MORTGAGE PAYMEN
    F4B_21F                     SINCE MARCH 2020-MISSED CREDIT CARD OR OTHER
    F4C_21F                     SINCE MARCH 2020-MISSED UTILITY OR INSURANCE
    F4D_21F                     SINCE MARCH 2020-UNABLE TO PAY MEDICAL BILL
    F4E_21F                     SINCE MARCH 2020-UNABLE TO AFFORD FOOD
    F4F_21F                     SINCE MARCH 2020-TROUBLE FINDING FOOD TO PUR
```

Financial Transfers During Pandemic

Round	Variable	Label	Type
1	H1CFINGOV	h1cfingov:r1 COVID: r+s receive financial support from gover	Categ
2	H2CFINGOV	h2cfingov:r2 COVID: r+s receive financial support from gover	Categ
1	H1CFANY	h1cfany:r1 COVID: r+s receive financial support from others	Categ
2	H2CFANY	h2cfany:r2 COVID: r+s receive financial support from others	Categ
1	H1CGANY	h1cgany:r1 COVID: r+s provide financial support to others	Categ
2	H2CGANY	h2cgany:r2 COVID: r+s provide financial support to others	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CFINGOV	9891	0.82	0.39	0.00	1.00
H2CFINGOV	11244	0.72	0.45	0.00	1.00
H1CFANY	10313	0.06	0.24	0.00	1.00
H2CFANY	10957	0.06	0.25	0.00	1.00
H1CGANY	10297	0.23	0.42	0.00	1.00
H2CGANY	10792	0.20	0.40	0.00	1.00

Categorical Variable Codes

Value	H1CFINGOV	H2CFINGOV
.d:DK	54	
.f:Financial resp not inter	333	
.m:Missing	24	326
.r:Refuse	50	
0.No	1806	3113
1.Yes	8085	8131

Value	H1CFANY	H2CFANY
.d:DK	11	
.m:Missing	20	613
.r:Refuse	8	
0.No	9673	10247
1.Yes	640	710

Value	H1CGANY	H2CGANY
.d:DK	26	
.m:Missing	21	778
.r:Refuse	8	
0.No	7919	8672
1.Yes	2378	2120

How Constructed:

At Rounds 1 and 2, respondents are asked whether they and/or their spouse, if they have one, received an economic impact payment due to the pandemic. At Round 1, before mid-January 2021, respondents were asked this question without reference to a specific payment. Starting in mid-January 2021, respondents were asked this question in reference to the late December 2020/early January 2021 payment. At Round 2, respondents were asked this question in reference to any payments in 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

HrCFINGOV indicates whether the respondent and their spouse, if they have one, received financial support from the government due to the COVID-19 pandemic. HrCFINGOV is coded as 0 if the respondent and/or their spouse reports that they and their spouse did not receive an economic impact payment during the pandemic. HrCFINGOV is coded as 1 if the respondent and/or their spouse reports that they and/or their spouse

received an economic impact payment during the pandemic. At Round 1, special missing value (.f) is assigned if this question was not asked because the respondent is married and their spouse, the household's financial respondent, did not participate in the current COVID round. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCFINGOV is coded as plain missing (.) if the respondent did not participate in the current COVID round.

At Round 1, the respondent is asked whether anyone outside their household helped them and their spouse, if they have one, with money or paying bills due to the pandemic. At Round 2, the respondent is asked whether anyone outside their household helped them and their spouse, if they have one, with money or paying bills; shopping for groceries, errands, rides, or chores; or with advice, encouragement, moral or emotional support. At Round 2, if the respondent reports that they and their spouse, if they have one, received help, they are then asked who helped them and how they were helped. At Round 2, the respondent may report that their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals helped them and their spouse, if they have one, with money or paying bills due to the pandemic. At Round 2, the respondent may also report that no one helped them and their spouse, if they have one, with money or paying bills due to the pandemic.

HrCFANY indicates whether the respondent and their spouse, if they have one, received financial support from anyone living outside their household due to the COVID-19 pandemic. HrCFANY is coded as 0 if the respondent reports that they and their spouse, if they have one, did not receive help with money or paying bills from anyone outside their household due to the pandemic. HrCFANY is coded as 1 if the respondent reports that they and their spouse, if they have one, received help with money or paying bills from anyone outside their household due to the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCFANY is coded as plain missing (.) if the respondent did not participate in the current COVID round.

At Round 1, the respondent is asked whether they and their spouse, if they have one, helped anyone living outside their household with money or paying bills due to the pandemic. At Round 2, the respondent is asked whether they and their spouse, if they have one, helped anyone outside their household with money or paying bills; shopping for groceries, errands, rides, or chores; or with advice, encouragement, moral or emotional support. At Round 2, if the respondent reports that they and their spouse, if they have one, provided help, they are then asked who they helped and how. At Round 2, the respondent may report that they and their spouse, if they have one, helped their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals with money or paying bills due to the pandemic. At Round 2, the respondent may also report that they and their spouse, if they have one, helped no one with money or paying bills due to the pandemic.

HrCGANY indicates whether the respondent and their spouse, if they have one, provided financial support to anyone living outside their household due to the COVID-19 pandemic. HrCGANY is coded as 0 if the respondent reports that they and their spouse, if they have one, did not provide help with money or paying bills to anyone outside their household due to the pandemic. HrCGANY is coded as 1 if the respondent reports that they and their spouse, if they have one, provided help with money or paying bills to anyone outside their household due to the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCGANY is coded as plain missing (.) if the respondent did not participate in the current COVID round.

Cross Round Differences in HRS

At Rounds 1 and 2, respondents are asked whether they and/or their spouse, if they have one, received an economic impact payment due to the pandemic. At Round 1, before mid-January 2021, respondents were asked this question without reference to a specific payment. Starting in mid-January 2021, respondents were asked this question in reference to the late December 2020/early January 2021 payment. At Round 2, respondents were asked this question in reference to any payments in 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, the respondent is asked whether anyone outside their household helped them and their spouse, if they have one, with money or paying bills due to the pandemic. At Round 2, the respondent is asked whether anyone outside their household helped them and their spouse, if they have one, with money or paying bills; shopping for groceries; errands, rides, or chores; or with advice, encouragement, moral or emotional support. At Round 2, if the respondent reports that someone outside their household helped them and their spouse, if they have one, they are then asked who helped them and how they were helped. At Round 2, the respondent may report that their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals helped them and their spouse, if they have one, with

money or paying bills due to the pandemic. At Round 2, the respondent may also report that no one helped them and their spouse, if they have one, with money or paying bills due to the pandemic.

At Round 1, the respondent is asked whether they and their spouse, if they have one, helped anyone outside their household with money or paying bills due to the pandemic. At Round 2, the respondent is asked whether they and their spouse, if they have one, helped anyone outside their household with money or paying bills; shopping for groceries; errands, rides, or chores; or with advice, encouragement, moral or emotional support. At Round 2, if the respondent reports that they and their spouse, if they have one, provided help, they are then asked who they helped and how. At Round 2, the respondent may report that they and their spouse, if they have one, helped their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals with money or paying bills due to the pandemic. At Round 2, the respondent may also report that they and their spouse, if they have one, helped no one with money or paying bills due to the pandemic.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Tracker:
    RFINR                       2020 WHETHER FINANCIAL RESPONDENT
Round 1 COVID-19:
    RCOVW590                    received stimulus payment
    RCOVW631                    help with bills
    RCOVW637                    helped anyone outside of hh
Round 2 COVID-19 Spring:
    D1_21S                      RECEIVE ECONOMIC IMPACT PAYMENTS IN 2021
    G10A_1_21S                  WHOM DID R HELP WITH-MONEY/BILLS-CHILDREN/GR
    G10A_2_21S                  WHOM DID R HELP WITH-MONEY/BILLS-PARENT/OTHE
    G10A_3_21S                  WHOM DID R HELP WITH-MONEY/BILLS-FRIEND
    G10A_4_21S                  WHOM DID R HELP WITH-MONEY/BILLS-NEIGHBOR/NO
    G10A_5_21S                  WHOM DID R HELP WITH-MONEY/BILLS-OTHER
    G10A_6_21S                  WHOM DID R HELP WITH-MONEY/BILLS-NO ONE
    G7_21S                      NON-HOUSEHOLD MEMBER PROVIDE HELP TO R
    G8A_1_21S                   WHO HELPED R WITH-MONEY/BILLS-CHILDREN/GRAND
    G8A_2_21S                   WHO HELPED R WITH-MONEY/BILLS-PARENT/OTHER R
    G8A_3_21S                   WHO HELPED R WITH-MONEY/BILLS-FRIEND
    G8A_4_21S                   WHO HELPED R WITH-MONEY/BILLS-NEIGHBOR/NON-R
    G8A_5_21S                   WHO HELPED R WITH-MONEY/BILLS-OTHER
    G8A_6_21S                   WHO HELPED R WITH-MONEY/BILLS-NO ONE
    G9_21S                      R HELP NON-HOUSEHOLD MEMBER
Round 2 COVID-19 Fall:
    D1_21F                      RECEIVE ECONOMIC IMPACT PAYMENTS IN 2021
    G10A_1_21F                  WHOM DID R HELP WITH-MONEY/BILLS-CHILDREN/GR
    G10A_2_21F                  WHOM DID R HELP WITH-MONEY/BILLS-PARENT/OTHE
    G10A_3_21F                  WHOM DID R HELP WITH-MONEY/BILLS-FRIEND
    G10A_4_21F                  WHOM DID R HELP WITH-MONEY/BILLS-NEIGHBOR/NO
    G10A_5_21F                  WHOM DID R HELP WITH-MONEY/BILLS-OTHER
    G10A_6_21F                  WHOM DID R HELP WITH-MONEY/BILLS-NO ONE
    G7_21F                      NON-HOUSEHOLD MEMBER PROVIDE HELP TO R
    G8A_1_21F                   WHO HELPED R WITH-MONEY/BILLS-CHILDREN/GRAND
    G8A_2_21F                   WHO HELPED R WITH-MONEY/BILLS-PARENT/OTHER R
    G8A_3_21F                   WHO HELPED R WITH-MONEY/BILLS-FRIEND
    G8A_4_21F                   WHO HELPED R WITH-MONEY/BILLS-NEIGHBOR/NON-R
    G8A_5_21F                   WHO HELPED R WITH-MONEY/BILLS-OTHER
    G8A_6_21F                   WHO HELPED R WITH-MONEY/BILLS-NO ONE
    G9_21F                      R HELP NON-HOUSEHOLD MEMBER
```

Section G: Employment

Work Status

Round	Variable	Label	Type
1	R1CWORKBF	r1cworkbf:r1 COVID: r working before pandemic	Categ
2	R2CWORKBF	r2cworkbf:r2 COVID: r working before pandemic	Categ
1	S1CWORKBF	s1cworkbf:r1 COVID: s working before pandemic	Categ
2	S2CWORKBF	s2cworkbf:r2 COVID: s working before pandemic	Categ
1	R1CWORK	r1cwork:r1 COVID: r working during pandemic	Categ
2	R2CWORK	r2cwork:r2 COVID: r working since March 2020	Categ
1	S1CWORK	s1cwork:r1 COVID: s working during pandemic	Categ
2	S2CWORK	s2cwork:r2 COVID: s working since March 2020	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CWORKBF	10291	0.48	0.50	0.00	1.00
R2CWORKBF	11179	0.38	0.49	0.00	1.00
S1CWORKBF	4893	0.52	0.50	0.00	1.00
S2CWORKBF	5511	0.41	0.49	0.00	1.00
R1CWORK	4529	0.32	0.47	0.00	1.00
R2CWORK	11227	0.40	0.49	0.00	1.00
S1CWORK	2599	0.35	0.48	0.00	1.00
S2CWORK	5528	0.43	0.49	0.00	1.00

Categorical Variable Codes

Value	R1CWORKBF	R2CWORKBF
.d:DK	26	
.m:Missing	27	391
.r:Refuse	8	
0.No	5313	6922
1.Yes	4978	4257

Value	S1CWORKBF	S2CWORKBF
.d:DK	9	
.m:Missing	8	141
.r:Refuse	4	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	2357	3255
1.Yes	2536	2256

Value	R1CWORK	R2CWORK
.m:Missing	141	343
.s:Not in self-completion q	5682	
0.No	3060	6683
1.Yes	1469	4544

Value	S1CWORK	S2CWORK
.m:Missing	67	124
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	1677	3167
1.Yes	922	2361

How Constructed:

At Round 1, respondents are asked if their work was affected because of the COVID-19 pandemic. The respondent may report one of the following options: "yes", "no", or "no, was not working when it started". It appears that many people who were not working at the previous interview reported "no" rather than "no, was not working when it started", so we also consider the respondent's report of working at Wave 14 of the core interview. Respondents are also asked to report whether they worked for pay at any time since the beginning of the coronavirus pandemic in the self-completion questionnaire.

At Round 2, respondents are asked to report what kind of work, if any, they did in early March 2020 before the pandemic started. The respondent may report one of the following options: "I worked for pay for someone else", "I was self-employed (I worked for myself/in my own business)", "I worked for someone else and I also worked for myself", or "I didn't work". If the respondent reports that they worked for pay for someone else, were self-employed, or worked for themselves and someone else before the pandemic, they are then asked to report whether there was a period of two weeks or more when they were not working since March 2020. If the respondent reports that they did not work before the pandemic or that they did work before the pandemic and there was a period of two weeks or more when they were not working since March 2020, they are then asked if they worked for a month or more between March 2020 and March 2021.

At Round 1, respondents are asked to report whether they worked for pay at any time since the beginning of the COVID-19 pandemic, while at Round 2, respondents are asked to report whether there was a period of two weeks or more when they were not working since March 2020 and whether they worked for a month or more between March 2020 and March 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCWORKBF indicates whether the respondent was working before the beginning of the COVID-19 pandemic. At Round 1, RrCWORKBF is coded as 0 if the respondent reports that they were not working at the prior interview and they report that their work was not affected because of the COVID-19 pandemic. At Round 1, RrCWORKBF is also coded as 0 if the respondent reports that their work was not affected because of the COVID-19 pandemic because they were not working when the pandemic started. At Round 1, RrCWORKBF is coded as 1 if the respondent reports that they were working at the prior interview or have a missing report of working at the prior interview and they report that their work was not affected because of the COVID-19 pandemic. At Round 1, RrCWORKBF is also coded as 1 if the respondent reports that their work was affected by the pandemic. At Round 2, RrCWORKBF is coded as 0 if the respondent reports that they did not work before the pandemic. At Round 2, RrCWORKBF is coded as 1 if the respondent reports that they either worked for pay for someone else, were self-employed, or worked for themselves and someone else before the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCWORKBF is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCWORK indicates whether the respondent has worked during the COVID-19 pandemic. At Round 1, RrCWORK is coded as 0 if the respondent reports that they have not worked for pay at any time since the beginning of the COVID-19 pandemic. At Round 1, RrCWORK is coded as 1 if the respondent reports that they have worked for pay at any time since the beginning of the COVID-19 pandemic. At Round 2, RrCWORK is coded as 0 if the respondent reports that they did not work for a month or more between March 2020 and March 2021. At Round 2, RrCWORK is coded as 1 if the respondent reports that there was not a period of two weeks or more when they were not working since March 2020 or they worked for a month or more between March 2020 and March 2021. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCWORK is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCWORKBF indicates whether the respondent's spouse was working before the beginning of the COVID-19 pandemic. SrCWORK indicates whether the respondent's spouse has worked during the COVID-19 pandemic. SrCWORKBF and SrCWORK are taken from the spouse's values to RrCWORKBF and RrCWORK, respectively. In addition to the special missing values used in RrCWORKBF and RrCWORK, SrCWORKBF and SrCWORK employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

The wording for these questions differs between rounds. At Round 1, respondents are asked if their work was affected because of the COVID-19 pandemic, and can report either "yes", "no", or "no, was not working when it started". It appears that many people who were not working at the previous interview reported "no" rather than "no, was not working when it started", so we also consider the respondent's report of working at Wave 14 of the core interview at Round 1. At Round 2, respondents are asked "what kind of work, if any, did you do in early March 2020 before the pandemic started", and can report either "I worked for pay for someone else", "I was self-employed", "I worked for someone else and I also worked for myself", or "I didn't work". Despite these differences in question wording, we believe these variables to be comparable across rounds.

At Round 1, respondents are asked to report whether they worked for pay at any time since the beginning of the coronavirus pandemic, while at Round 2, respondents are asked to report whether there was a period of two weeks or more when they were not working since March 2020 and, if not, whether they worked for a month or more between March 2020 and March 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

RrCWORK: This variable is comparable to RwWORK in the RAND HRS, which also includes RwSLFEMP, indicating whether the respondent is currently self-employed, and other related variables. Other variables related to the respondent's employment status are available in the Harmonized HRS.

HRS Variables Used:

```
RAND HRS:
    R14WORK                     r14work:w14 r working for pay
Round 1 COVID-19:
    RCOVW601                    work affected
    RLB072                      q72. work for pay
Round 2 COVID-19 Spring:
    E1_21S                      KIND OF WORK-PRE-PANDEMIC
    E2_21S                      SNC 3/2020 HAVE WORK STOPPAGE OF TWO WEEKS O
    E4_21S                      WORK-BETWEEN MARCH 2020-2021
Round 2 COVID-19 Fall:
    E1_21F                      KIND OF WORK-PRE-PANDEMIC
    E2_21F                      SNC 3/2020 HAVE WORK STOPPAGE OF TWO WEEKS O
    E4_21F                      WORK-BETWEEN MARCH 2020-2021
```

Job Changed Due to Pandemic

Round	Variable	Label	Type
1	R1CJLOST	r1cjlost:r1 COVID: r lost job/furloughed due to pandemic	Categ
2	R2CJLOST	r2cjlost:r2 COVID: r lost job/furloughed since March 2020	Categ
1	S1CJLOST	s1cjlost:r1 COVID: s lost job/furloughed due to pandemic	Categ
2	S2CJLOST	s2cjlost:r2 COVID: s lost job/furloughed since March 2020	Categ
1	R1CJCHTIM	r1cjchtim:r1 COVID: r job changed - work days/hours	Categ
1	S1CJCHTIM	s1cjchtim:r1 COVID: s job changed - work days/hours	Categ
1	R1CJCHRSK	r1cjchrsk:r1 COVID: r job changed - more risky/dangerous	Categ
2	R2CJCHRSK	r2cjchrsk:r2 COVID: r job changed 1st yr pndmc - more risky/	Categ
1	S1CJCHRSK	s1cjchrsk:r1 COVID: s job changed - more risky/dangerous	Categ
2	S2CJCHRSK	s2cjchrsk:r2 COVID: s job changed 1st yr pndmc - more risky/	Categ
1	R1CJCHHRD	r1cjchhrd:r1 COVID: r job changed - harder	Categ
2	R2CJCHHRD	r2cjchhrd:r2 COVID: r job changed 1st yr pndmc - harder	Categ
1	S1CJCHHRD	s1cjchhrd:r1 COVID: s job changed - harder	Categ
2	S2CJCHHRD	s2cjchhrd:r2 COVID: s job changed 1st yr pndmc - harder	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CJLOST	4958	0.17	0.38	0.00	1.00
R2CJLOST	5524	0.14	0.34	0.00	1.00
S1CJLOST	2529	0.16	0.37	0.00	1.00
S2CJLOST	2809	0.13	0.33	0.00	1.00
R1CJCHTIM	3577	0.14	0.34	0.00	1.00
S1CJCHTIM	1871	0.13	0.33	0.00	1.00
R1CJCHRSK	3577	0.10	0.31	0.00	1.00
R2CJCHRSK	3444	0.28	0.45	0.00	1.00
S1CJCHRSK	1871	0.10	0.30	0.00	1.00
S2CJCHRSK	1827	0.24	0.43	0.00	1.00
R1CJCHHRD	3577	0.10	0.30	0.00	1.00
R2CJCHHRD	3902	0.15	0.35	0.00	1.00
S1CJCHHRD	1871	0.10	0.30	0.00	1.00
S2CJCHHRD	2047	0.12	0.33	0.00	1.00

Categorical Variable Codes

Value	R1CJLOST	R2CJLOST
.d:DK	45	
.m:Missing	27	343
.r:Refuse	9	
.w:Did not work before pand	5313	5703
0.No	4094	4762
1.Yes	864	762

Value	S1CJLOST	S2CJLOST
.d:DK	16	
.m:Missing	8	123
.r:Refuse	4	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.w:Did not work before pand	2357	2720
.z:Not in wave 15		807
0.No	2113	2449
1.Yes	416	360

Value	R1CJCHTIM
.d:DK	39
.m:Missing	27
.r:Refuse	8
.s:Stopped work	1388
.w:Did not work before pand	5313
0.No	3094
1.Yes	483

Value	S1CJCHTIM
.d:DK	13
.m:Missing	8
.r:Refuse	4
.s:Stopped work	661
.u:Unmar	4277
.v:SP NR	1161
.w:Did not work before pand	2357
0.No	1631
1.Yes	240

Value	R1CJCHRSK	R2CJCHRSK
.d:DK	39	
.k:Did not work during pand		6642
.m:Missing	27	369
.n:Does not apply		1115
.r:Refuse	8	
.s:Stopped work	1388	
.w:Did not work before pand	5313	
0.No	3203	2489
1.Yes	374	955

Value	S1CJCHRSK	S2CJCHRSK
.d:DK	13	
.k:Did not work during pand		3153
.m:Missing	8	139
.n:Does not apply		533
.r:Refuse	4	
.s:Stopped work	661	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.w:Did not work before pand	2357	
.z:Not in wave 15		807
0.No	1689	1380
1.Yes	182	447

Value	R1CJCHHRD	R2CJCHHRD
.d:DK	39	
.k:Did not work during pand		6619
.m:Missing	27	356
.n:Does not apply		693
.r:Refuse	8	
.s:Stopped work	1388	
.w:Did not work before pand	5313	
0.No	3208	3327
1.Yes	369	575

Value	S1CJCHHRD	S2CJCHHRD
.d:DK	13	
.k:Did not work during pand		3143
.m:Missing	8	133
.n:Does not apply		329
.r:Refuse	4	
.s:Stopped work	661	
.u:Unmar	4277	3974

.v:SP NR	1161	1137
.w:Did not work before pand	2357	
.z:Not in wave 15		807
0.No	1682	1797
1.Yes	189	250

How Constructed:

At Round 1, respondents are asked whether their work was affected because of the COVID-19 pandemic. The respondent may report: "yes", "no", or "no, was not working when it started". If the respondent reports that their work was affected because of the COVID-19 pandemic, they are asked whether they had to stop work entirely. If the respondent reports that they had to stop work entirely, they are asked whether they lost their job/were laid off permanently, were furloughed/laid off temporarily, quit, or stopped work entirely for another reason. It appears that many people who were not working at the previous interview reported "no" rather than "no, was not working when it started" to the first question, so we also consider the respondent's report of working at Wave 14 of the core interview.

At Round 2, respondents are asked to report what kind of work, if any, they did in early March 2020 before the pandemic started. The respondent may report one of the following options: "I worked for pay for someone else", "I was self-employed (I worked for myself/in my own business)", "I worked for someone else and I also worked for myself", or "I didn't work". If the respondent reports that they worked for pay for someone else, were self-employed, or worked for themselves and someone else before the pandemic, they are then asked to report whether there was a period of two weeks or more when they were not working since March 2020. If the respondent reports that there was a period of two weeks or more when they were not working, they are asked whether they lost their job/were laid off permanently, were furloughed/laid off temporarily, were on vacation/taking voluntary time off, were sick with illness, were caring for others who needed them, quit, retired, or stopped work for another reason.

At Round 1, respondents are asked to report whether they lost their job/were laid off permanently, were furloughed/laid off temporarily, quit, or stopped work entirely for another reason during the COVID-19 pandemic, while at Round 2, respondents are asked to report whether they lost their job/were laid off permanently, were furloughed/laid off temporarily, were on vacation/taking voluntary time off, were sick with illness, were caring for others who needed them, quit, retired, or stopped work for another reason since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCJLOST indicates whether the respondent lost their job or was furloughed due to the COVID-19 pandemic. At Round 1, RrCJLOST is coded as 0 if the respondent reports that their work was not affected by the COVID-19 pandemic and they reported working at the previous core interview or had a missing report of working at the previous core interview. At Round 1, RrCJLOST is also coded as 0 if the respondent reports that they did not stop working due to the pandemic. At Round 1, RrCJLOST is also coded as 0 if the respondent reports that they had to stop work entirely, but did not report having to stop work because they lost their job or were furloughed due to the pandemic. At Round 1, RrCJLOST is coded as 1 if the respondent reports that they had to stop work entirely because they lost their job/were laid off permanently or were furloughed/laid off temporarily due to the pandemic. At Round 2, RrCJLOST is coded as 0 if the respondent reports that there was not a period of two weeks or more when they were not working since March 2020. At Round 2, RrCJLOST is also coded as 0 if the respondent reports that there was a period of two or more weeks when they were not working due to the pandemic, but did not report having to stop work because they lost their job/were laid off permanently or were furloughed/laid off temporarily due to the pandemic. At Round 2, RrCJLOST is coded as 1 if the respondent reports that there was a period of two weeks or more when they were not working during the pandemic and reports that they stopped work because they lost their job/were laid off permanently or were furloughed/laid off temporarily. Special missing value (.w) is assigned if the respondent was not asked this question because they report that they were not working when the pandemic started. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJLOST is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCJLOST indicates whether the respondent's spouse lost their job or was furloughed due to the COVID-19 pandemic. SrCJLOST is taken from the spouse's values to RrCJLOST. In addition to the special missing values used in RrCJLOST, SrCJLOST employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

At Round 1, respondents are asked whether their work was affected because of the COVID-19 pandemic. The respondent may report: "yes", "no", or "no, was not working when it started". If the respondent reports that their work was affected because of the COVID-19 pandemic, they are asked whether they had to stop work entirely. If the respondent reports that they did not have to stop work entirely, they are asked how their work was affected and can select all responses that apply, including: changed work days or hours, work became more risky or dangerous, work became harder, work switched to working from home or working remotely, or other. It appears that many people who were not working at the previous interview reported "no" rather than "no, was not working when it started" to the first question, so we also consider the respondent's report of working at Wave 14 of the core interview.

At Round 2, respondents are asked to report what kind of work, if any, they did in early March 2020 before the pandemic started. The respondent may report one of the following options: "I worked for pay for someone else", "I was self-employed (I worked for myself/in my own business)", "I worked for someone else and I also worked for myself", or "I didn't work". If the respondent reports that they worked for pay for someone else, were self-employed, or worked for themselves and someone else before the pandemic, they are then asked to report whether there was a period of two weeks or more when they were not working since March 2020. If the respondent reports that they did not work before the pandemic or that they did work before the pandemic and there was a period of two weeks or more when they were not working since March 2020, they are then asked if they worked for a month or more between March 2020 and March 2021. If the respondent reports that they did work before the pandemic and there was not a period of two weeks or more when they were not working before the pandemic or that they worked for a month or more between March 2020 and March 2021, they are then asked how different aspects of their work changed during the pandemic from March 2020 to March 2021 compared to before the pandemic, including: how much physical effort it takes to do their job, how much stress is caused by their job, their enjoyment of their job, their work schedule interfering with their ability to fulfill personal responsibilities, job worries or problems distracting them when they are not at work, not being able to get work done on time because of their home life, or how much their family or personal life drains them of the energy they need to do their job. The respondent may report that the specific aspect "increased", "stayed about the same", or "decreased". The respondent may also report that the specific aspect is not applicable to them.

At Round 1, respondents are asked to report how their work was affected because of the COVID-19 pandemic, while at Round 2, respondents are asked to report how different aspects of their work changed during the pandemic from March 2020 to March 2021 compared to before the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCJCHTIM indicates whether the respondent had to change work days or hours due to the COVID-19 pandemic. RrCJCHTIM is only available at Round 1. RrCJCHTIM is coded as 0 if the respondent reports that their work was not affected because of the COVID-19 pandemic and they reported working at the previous core interview or had a missing report of working at the previous core interview. RCJCHTIM is also coded as 0 if the respondent reports that they did not have to stop work entirely, but they do not report that they had to change work days or hours. RrCJCHTIM is coded as 1 if the respondent reports that they had to change work days or hours. Special missing value (.w) is assigned if the respondent reports that their work was not affected because of the COVID-19 pandemic since they were not working when the pandemic started. Special missing value (.s) is assigned if the respondent reports that they had to stop work entirely so they were not asked this question. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJCHTIM is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCJCHRSK indicates whether the respondent's work became more risky or dangerous due to the COVID-19 pandemic. At Round 1, RrCJCHRSK is coded as 0 if the respondent reports that their work was not affected because of the COVID-19 pandemic and they reported working at the previous core interview or had a missing report of working at the previous core interview. At Round 1, RrCJCHRSK is also coded as 0 if the respondent reports that they did not have to stop work entirely, but they do not report that their work became more risky or dangerous. At Round 1, RrCJCHRSK is coded as 1 if the respondent reports that their work became more risky or dangerous. At Round 2, RrCJCHRSK is coded as 0 if the respondent reports that the risk or danger of their job decreased or stayed about the same during the pandemic from March 2020 to March 2021 compared to before the pandemic. At Round 2, RrCJCHRSK is coded as 1 if the respondent reports that the risk or danger of their job increased during the pandemic from March 2020 to March 2021 compared to before the pandemic. At Round 1, special missing value (.w) is assigned if the respondent reports that their work was not affected because of the COVID-19 pandemic since they were not working when the pandemic started. At Round 1, special missing value (.s) is assigned if the respondent reports that they had to stop work entirely so they were not asked this question. At Round 2, special missing value (.k) is assigned if the respondent reports that they did not work for a month or more between March 2020 and

March 2021. At Round 2, special missing value (.n) is assigned if the respondent reports "not applicable" in response to this question. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJCHRSK is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCJCHHRD indicates whether the respondent's work became harder due to the COVID-19 pandemic. At Round 1, RrCJCHHRD is coded as 0 if the respondent reports that their work was not affected because of the COVID-19 pandemic and they reported working at the previous core interview or had a missing report of working at the previous core interview. At Round 1, RrCJCHHRD is also coded as 0 if the respondent reports that they did not have to stop work entirely, but they do not report that their work became harder. At Round 1, RrCJCHHRD is coded as 1 if the respondent reports that their work became harder. At Round 2, RrCJCHHRD is coded as 0 if the respondent reports that the physical effort it takes to do their job decreased or stayed the same during the pandemic from March 2020 to March 2021 compared to before the pandemic. At Round 2, RrCJCHHRD is coded as 1 if the respondent reports that the physical effort it takes to do their job increased during the pandemic from March 2020 to March 2021 compared to before the pandemic. At Round 1, special missing value (.w) is assigned if the respondent reports that their work was not affected because of the COVID-19 pandemic since they were not working when the pandemic started. At Round 1, special missing value (.s) is assigned if the respondent reports that they had to stop work entirely so they were not asked this question. At Round 2, special missing value (.k) is assigned if the respondent reports that they did not work for a month or more between March 2020 and March 2021. At Round 2, special missing value (.n) is assigned if the respondent reports "not applicable" in response to this question. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJCHHRD is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCJCHTIM indicates whether the respondent's spouse had to change work days or hours due to the COVID-19 pandemic. SrCJCHRSK indicates whether the respondent's spouse's work became more risky or dangerous due to the COVID-19 pandemic. SrCJCHHRD indicates whether the respondent's spouse's work became harder due to the COVID-19 pandemic. SrCJCHTIM, SrCJCHRSK, and SrCJCHHRD are taken from the spouse's values to RrCJCHTIM, RrCJCHRSK, and RrCJCHHRD, respectively. In addition to the special missing values used in RrCJCHTIM, RrCJCHRSK, and RrCJCHHRD, SrCJCHTIM, SrCJCHRSK, and SrCJCHHRD employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned to RrCJLOST, RrCJCHRSK, and RrCJCHHRD if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Question wording differs across rounds. At Round 1, respondents are asked whether their work was affected by the pandemic. At Round 1, respondents may report either "yes", "no", or "no, was not working when it started". At Round 1, if the respondent reports that their work was affected by the pandemic, they are then asked whether they had to stop work entirely. At Round 1, if the respondent reports that they had to stop work entirely during the pandemic, they are then asked why they had to stop work entirely during the pandemic. It appears that many people who were not working at the previous interview reported "no" rather than "no, was not working when it started", so we also consider the respondent's report of working at Wave 14 of the core interview at Round 1. At Round 2 respondents are asked if there was a period of two weeks or more when they were not working since March 2020. At Round 2, if the respondent reports that there was a period of two weeks or more when they were not working, they are then asked why they stopped working.

At Round 1, respondents are asked to report whether they lost their job/were laid off permanently, were furloughed/laid off temporarily, quit, or stopped work entirely for another reason during the COVID-19 pandemic, while at Round 2, respondents are asked to report whether they lost their job/were laid off permanently, were furloughed/laid off temporarily, were on vacation/taking voluntary time off, were sick with illness, were caring for others who needed them, quit, retired, or stopped work for another reason since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, respondents are asked to report how their work was affected because of the COVID-19 pandemic and can select all responses that apply, including: changed work days or hours, work became more risky or dangerous, work became harder, work switched to working from home or working remotely, or other. At Round 2, respondents are asked how different aspects of their work changed during the pandemic from March 2020

to March 2021 compared to before the pandemic, including: how much physical effort it takes to do their job, how much stress is caused by their job, their enjoyment of their job, their work schedule interfering with their ability to fulfill personal responsibilities, job worries or problems distracting them when they are not at work, not being able to get work done on time because of their home life, or how much their family or personal life drains them of the energy they need to do their job. The respondent may report that the specific aspect "increased", "stayed about the same", or "decreased". The respondent may also report that the specific aspect is not applicable to them.

At Round 1, respondents are asked to report how their work was affected because of the COVID-19 pandemic, while at Round 2, respondents are asked to report how different aspects of their work changed during the pandemic from March 2020 to March 2021 compared to before the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

RrCJLOST: This variable is related to RwJRSLEFT in the Harmonized HRS, which indicates the reason that the respondent stopped working at their previous job if they are no longer working. Other variables related to the respondent's employment history are available in the RAND HRS.

RrCJCHHRD: This variable is related to RwJDIFFA in the Harmonized HRS, which indicates how much the respondent agrees with that their current job requires them to do more difficult things than it used to.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW601                work affected
    RCOVW602                stop work entirely
    RCOVW603                what happened to job
    RCOVW606M1              how work was affected - 1
    RCOVW606M2              how work was affected - 2
    RCOVW606M3              how work was affected - 3
    RCOVW606M4              how work was affected - 4
    RCOVW606M5              how work was affected - 5
Round 2 COVID-19 Spring:
    E10A_21S                HOW WORK CHANGED 3/2020-3/2021-PHYSICAL STRE
    E10D_21S                HOW WORK CHANGED 3/2020-3/2021-RISK/DANGER O
    E1_21S                  KIND OF WORK-PRE-PANDEMIC
    E2_21S                  SNC 3/2020 HAVE WORK STOPPAGE OF TWO WEEKS O
    E3_1_21S                WHY STOP WORKING-LOST JOB/LAID OFF PERMANENT
    E3_2_21S                WHY STOP WORKING-FURLOUGHED/LAID OFF TEMPORA
Round 2 COVID-19 Fall:
    E10A_21F                HOW WORK CHANGED 3/2020-3/2021-PHYSICAL STRE
    E10D_21F                HOW WORK CHANGED 3/2020-3/2021-RISK/DANGER O
    E1_21F                  KIND OF WORK-PRE-PANDEMIC
    E2_21F                  SNC 3/2020 HAVE WORK STOPPAGE OF TWO WEEKS O
    E3_1_21F                WHY STOP WORKING-LOST JOB/LAID OFF PERMANENT
    E3_2_21F                WHY STOP WORKING-FURLOUGHED/LAID OFF TEMPORA
```

Work Location During Pandemic

Round	Variable	Label	Type
1	R1CJIHOME	r1cjihome:r1 COVID: r work from home during pandemic	Categ
2	R2CJIHOME	r2cjihome:r2 COVID: r work from home 1st yr pndmc	Categ
1	S1CJIHOME	s1cjihome:r1 COVID: s work from home during pandemic	Categ
2	S2CJIHOME	s2cjihome:r2 COVID: s work from home 1st yr pndmc	Categ
1	R1CJOHOME	r1cjohome:r1 COVID: r work outside home during pandemic	Categ
2	R2CJOHOME	r2cjohome:r2 COVID: r work outside home 1st yr pndmc	Categ
1	S1CJOHOME	s1cjohome:r1 COVID: s work outside home during pandemic	Categ
2	S2CJOHOME	s2cjohome:r2 COVID: s work outside home 1st yr pndmc	Categ
2	R2CJIHOMEP	r2cjihomep:r2 COVID: r preference for working from home	Categ
2	S2CJIHOMEP	s2cjihomep:r2 COVID: s preference for working from home	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CJIHOME	2286	0.49	0.50	0.00	1.00
R2CJIHOME	4259	0.36	0.48	0.00	1.00
S1CJIHOME	1339	0.45	0.50	0.00	1.00
S2CJIHOME	2239	0.38	0.49	0.00	1.00
R1CJOHOME	2286	0.51	0.50	0.00	1.00
R2CJOHOME	4259	0.64	0.48	0.00	1.00
S1CJOHOME	1339	0.55	0.50	0.00	1.00
S2CJOHOME	2239	0.62	0.49	0.00	1.00
R2CJIHOMEP	2817	0.85	0.85	0.00	2.00
S2CJIHOMEP	1466	0.92	0.85	0.00	2.00

Categorical Variable Codes

Value	R1CJIHOME	R2CJIHOME
.m:Missing	142	444
.s:Not in self-completion q	5682	
.w:Did not work during pand	2242	6867
0.No	1170	2743
1.Yes	1116	1516

Value	S1CJIHOME	S2CJIHOME
.m:Missing	69	181
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.w:Did not work during pand	1258	3232
.z:Not in wave 15		807
0.No	742	1389
1.Yes	597	850

Value	R1CJOHOME	R2CJOHOME
.m:Missing	142	444
.s:Not in self-completion q	5682	
.w:Did not work during pand	2242	6867
0.No	1116	1516

1.Yes	1170	2743

Value	S1CJOHOME	S2CJOHOME
.m:Missing	69	181
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.w:Did not work during pand	1258	3232
.z:Not in wave 15		807
0.No	597	850
1.Yes	742	1389

Value	R2CJIHOMEP
.m:Missing	649
.n:Could not do job from ho	1519
.w:Did not work during pand	6585
0.No	1258
1.Yes, some of the time	731
2.Yes, all of the time	828

Value	S2CJIHOMEP
.m:Missing	284
.n:Could not do job from ho	771
.u:Unmar	3974
.v:SP NR	1137
.w:Did not work during pand	3131
.z:Not in wave 15	807
0.No	589
1.Yes, some of the time	407
2.Yes, all of the time	470

How Constructed:

At Round 1, respondents are asked whether they have worked for pay at any time since the beginning of the COVID-19 pandemic. If the respondent reports that they have worked for pay at any time since the beginning of the COVID-19 pandemic, they are then asked to report whether they worked outside their home during the pandemic.

At Round 2, respondents are asked to report what kind of work, if any, they did in early March 2020 before the pandemic started. The respondent may report one of the following options: "I worked for pay for someone else", "I was self-employed (I worked for myself/in my own business)", "I worked for someone else and I also worked for myself", or "I didn't work". If the respondent reports that they worked for pay for someone else, were self-employed, or worked for themselves and someone else before the pandemic, they are then asked to report whether there was a period of two weeks or more when they were not working since March 2020. If the respondent reports that they did not work before the pandemic or that they did work before the pandemic and there was a period of two weeks or more when they were not working since March 2020, they are then asked if they worked for a month or more between March 2020 and March 2021. If the respondent reports that they did work before the pandemic and there was not a period of two weeks or more when they were not working before the pandemic or that they worked for a month or more between March 2020 and March 2021, they are then asked to report whether they worked from home most of the time or worked from their regular workplace most of the time between March 2020 and March 2021. If the respondent reports that they did work before the pandemic and there was not a period of two weeks or more when they were not working before the pandemic or that they worked for a month or more between March 2020 and March 2021, they are also asked to report whether they would like to work from home after the pandemic is over. The respondent can select one of the following options: "yes, all of the time", "yes, some of the time", "no", or "my job could not be done from home".

At Round 1, the respondent is asked to report whether they worked outside their home at any time since the beginning of the COVID-19 pandemic, while at Round 2, the respondent is asked to report whether they worked from home or from a regular workplace most of the time between March 2020 and March 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCJIHOME indicates whether the respondent has worked from home during the COVID-19 pandemic. At Round 1, RrCJIHOME is coded as 0 if the respondent reports that they have worked outside their home during the pandemic. At Round 1, RrCJIHOME is coded as 1 if the respondent reports that they have not worked outside their home during the pandemic. At Round 2, RrCJIHOME is coded as 0 if the respondent reports that they worked from a regular workplace most of the time during the pandemic. At Round 2, RrCJIHOME is coded as 1

if the respondent reports that they worked from home most of the time during the pandemic. Special missing value (.w) is assigned if the respondent did not work during the pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJIHOME is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCJOHOME indicates whether the respondent has worked outside their home during the COVID-19 pandemic. At Round 1, RrCJOHOME is coded as 0 if the respondent reports that they have not worked outside their home during the pandemic. At Round 1, RrCJOHOME is coded as 1 if the respondent reports that they have worked outside their home during the pandemic. At Round 2, RrCJOHOME is coded as 0 if the respondent reports that they worked from home most of the time during the pandemic. At Round 2, RrCJOHOME is coded as 1 if the respondent reports that they worked from a regular workplace most of the time during the pandemic. Special missing value (.w) is assigned if the respondent did not work during the pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJOHOME is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCJIHOMEP indicates the respondent's preference in work location after the COVID-19 pandemic is over. RrCJIHOMEP is only available at Round 2. RrCJIHOMEP is coded as 0 if the respondent reports that they would not want to work from home after the pandemic. RrCJIHOMEP is coded as 1 if the respondent reports that they would like to work from home some of the time after the pandemic. RrCJIHOMEP is coded as 2 if the respondent reports that they would like to work from home all of the time after the pandemic. Special missing value (.n) is assigned if the respondent reports that their job could not be done from home. Special missing value (.w) is assigned if the respondent did not work during the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJIHOMEP is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCJIHOME indicates whether the respondent's spouse has worked from home during the COVID-19 pandemic. SrCJOHOME indicates whether the respondent's spouse has worked outside their home during the COVID-19 pandemic. SrCJIHOMEP indicates the respondent's spouse's preference in work location after the COVID-19 pandemic is over. SrCJIHOME, SrCJOHOME, and SrCJIHOMEP are taken from the spouse's values to RrCJIHOME, RrCJOHOME, and RrCJIHOMEP, respectively. In addition to the special missing values used in RrCJIHOME, RrCJOHOME, and RrCJIHOMEP, SrCJIHOME, SrCJOHOME, and SrCJIHOMEP employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Round 1, the respondent is asked to report whether they worked outside their home at any time since the beginning of the COVID-19 pandemic, while at Round 2, the respondent is asked to report whether they worked from home or from a regular workplace most of the time between March 2020 and March 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Unlike Round 2, Round 1 does not ask respondents to report whether they would like to work from home after the pandemic is over.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB072                      q72. work for pay
    RLB072B                     q72b. work outside home
```

```
Round 2 COVID-19 Spring:
    E4_21S                      WORK-BETWEEN MARCH 2020-2021
    E6_21S                      WORK HOME/REG WRK PLACE BETWEEN MARCH 2020-2
    E9_21S                      LIKE TO WORK FROM HOME AFTER PANDEMIC
Round 2 COVID-19 Fall:
    E4_21F                      WORK-BETWEEN MARCH 2020-2021
    E6_21F                      WORK HOME/REG WRK PLACE BETWEEN MARCH 2020-2
    E9_21F                      LIKE TO WORK FROM HOME AFTER PANDEMIC
```

Job Considered Essential

Round	Variable	Label	Type
1	R1CJESSNTL	r1cjessntl:r1 COVID: r job considered essential	Categ
2	R2CJESSNTL	r2cjessntl:r2 COVID: r job considered essential since March	Categ
1	S1CJESSNTL	s1cjessntl:r1 COVID: s job considered essential	Categ
2	S2CJESSNTL	s2cjessntl:r2 COVID: s job considered essential since March	Categ
1	HH1CJESSNTL	hh1cjessntl:r1 COVID: hhold job considered essential	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CJESSNTL	2001	0.49	0.50	0.00	1.00
R2CJESSNTL	4464	0.55	0.50	0.00	1.00
S1CJESSNTL	1206	0.50	0.50	0.00	1.00
S2CJESSNTL	2316	0.56	0.50	0.00	1.00
HH1CJESSNTL	4522	0.36	0.48	0.00	1.00

Categorical Variable Codes

Value	R1CJESSNTL	R2CJESSNTL
.d:DK		526
.m:Missing	158	329
.s:Not in self-completion q	5682	
.w:Did not work during pand	2511	6251
0.No	1029	2011
1.Yes	972	2453

Value	S1CJESSNTL	S2CJESSNTL
.d:DK		237
.m:Missing	77	130
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.w:Did not work during pand	1383	2969
.z:Not in wave 15		807
0.No	602	1023
1.Yes	604	1293

Value	HH1CJESSNTL
.m:Missing	148
.s:Not in self-completion q	5682
0.No	2907
1.Yes	1615

How Constructed:

At Round 1, respondents are asked whether they have worked for pay at any time since the beginning of the COVID-19 pandemic. If the respondent reports that they have worked for pay at any time since the beginning of the COVID-19 pandemic, they are then asked to report whether their job was considered essential during the pandemic and whether anyone in their household worked in a job that was considered essential during the pandemic.

At Round 2, respondents are asked to report what kind of work, if any, they did in early March 2020 before the pandemic started. The respondent may report one of the following options: "I worked for pay for someone else", "I was self-employed (I worked for myself/in my own business)", "I worked for someone else and I also worked for myself", or "I didn't work". If the respondent reports that they worked for pay for someone else, were self-employed, or worked for themselves and someone else before the pandemic,

they are then asked to report whether there was a period of two weeks or more when they were not working since March 2020. If the respondent reports that they did not work before the pandemic or that they did work before the pandemic and there was a period of two weeks or more when they were not working since March 2020, they are then asked if they worked for a month or more between March 2020 and March 2021. If the respondent reports that they did work before the pandemic and there was not a period of two weeks or more when they were not working before the pandemic or that they worked for a month or more between March 2020 and March 2021, they are then asked to report if they were considered an essential worker during the pandemic.

At Rounds 1 and 2, respondents are asked to report whether their job was considered essential during the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCJESSNTL indicates whether the respondent's job was considered essential during the COVID-19 pandemic. RrCJESSNTL is coded as 0 if the respondent reports that their job was not considered essential during the pandemic. RrCJESSNTL is coded as 1 if the respondent reports that their job was considered essential during the pandemic. Special missing value (.w) is assigned if the respondent did not work during the pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJESSNTL is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCJESSNTL indicates whether the respondent's spouse's job was considered essential during the COVID-19 pandemic. SrCJESSNTL is taken from the spouse's value to RrCJESSNTL. In addition to the special missing values used in RrCJESSNTL, SrCJESSNTL employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

HHrCJESSNTL indicates whether any member of the respondent's household worked in a job that was considered essential during the pandemic. HHrCJESSNTL is only available at Round 1. HHrCJESSNTL is coded as 0 if the respondent reports that no member of their household worked in a job that was considered essential during the pandemic. HHrCJESSNTL is coded as 1 if the respondent reports that a member of their household worked in a job that was considered essential during the pandemic. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HHrCJESSNTL is coded as plain missing (.) if the respondent did not participate in the current COVID round.

Cross Round Differences in HRS

At Rounds 1 and 2, respondents are asked to report whether their job was considered essential during the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Unlike Round 1, Round 2 does not ask the respondent to report if someone in their household worked in a job that was considered essential during the COVID-19 pandemic.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB071                      q71. some in household work as essential wor
    RLB072                      q72. work for pay
    RLB072A                     q72a. multiple jobs
Round 2 COVID-19 Spring:
    E4_21S                      WORK-BETWEEN MARCH 2020-2021
```

```
    E5_21S                      CONSIDERED ESSENTIAL WORKER
Round 2 COVID-19 Fall:
    E4_21F                      WORK-BETWEEN MARCH 2020-2021
    E5_21F                      CONSIDERED ESSENTIAL WORKER
```

Frequency Worked in Close Contact With Others

Round	Variable	Label	Type
1	R1CJCONCW	r1cjconcw:r1 COVID: r work contact w/ co-workers	Categ
2	R2CJCONCW	r2cjconcw:r2 COVID: r work contact w/ co-workers since March	Categ
1	S1CJCONCW	s1cjconcw:r1 COVID: s work contact w/ co-workers	Categ
2	S2CJCONCW	s2cjconcw:r2 COVID: s work contact w/ co-workers since March	Categ
1	R1CJCONGP	r1cjcongp:r1 COVID: r work contact w/ general public	Categ
2	R2CJCONGP	r2cjcongp:r2 COVID: r work contact w/ general public since M	Categ
1	S1CJCONGP	s1cjcongp:r1 COVID: s work contact w/ general public	Categ
2	S2CJCONGP	s2cjcongp:r2 COVID: s work contact w/ general public since M	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CJCONCW	1516	1.10	0.82	0.00	2.00
R2CJCONCW	3170	1.10	0.75	0.00	2.00
S1CJCONCW	905	1.16	0.80	0.00	2.00
S2CJCONCW	1581	1.09	0.74	0.00	2.00
R1CJCONGP	1519	0.91	0.79	0.00	2.00
R2CJCONGP	3189	0.90	0.75	0.00	2.00
S1CJCONGP	907	0.92	0.78	0.00	2.00
S2CJCONGP	1587	0.88	0.73	0.00	2.00

Categorical Variable Codes

Value	R1CJCONCW	R2CJCONCW
.h:Worked from home	778	1259
.m:Missing	142	412
.s:Not in self-completion q	5682	
.w:Did not work during pand	2234	6729
0.Never	447	739
1.Sometimes	472	1372
2.Always	597	1059

Value	S1CJCONCW	S2CJCONCW
.h:Worked from home	438	723
.m:Missing	68	164
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.w:Did not work during pand	1255	3184
.z:Not in wave 15		807
0.Never	232	362
1.Sometimes	296	707
2.Always	377	512

Value	R1CJCONGP	R2CJCONGP
.h:Worked from home	772	1251
.m:Missing	142	399
.s:Not in self-completion q	5682	
.w:Did not work during pand	2237	6731
0.Never	548	1076
1.Sometimes	555	1358
2.Always	416	755

Value	S1CJCONGP	S2CJCONGP

.h:Worked from home	433	719
.m:Missing	69	159
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.w:Did not work during pand	1257	3187
.z:Not in wave 15		807
0.Never	316	532
1.Sometimes	344	710
2.Always	247	345

How Constructed:

At Round 1, respondents are asked whether they have worked for pay at any time since the beginning of the COVID-19 pandemic. If the respondent reports that they have worked for pay at any time since the beginning of the COVID-19 pandemic, they are then asked to report whether they worked outside their home. If the respondent reports that they have worked outside their home during the pandemic, they are then asked to report how often they worked in close contact with the general public and their co-workers. The respondent may report that they "always", "sometimes", or "never" worked in close contact with these populations.

At Round 2, respondents are asked to report what kind of work, if any, they did in early March 2020 before the pandemic started. The respondent may report one of the following options: "I worked for pay for someone else", "I was self-employed (I worked for myself/in my own business)", "I worked for someone else and I also worked for myself", or "I didn't work". If the respondent reports that they worked for pay for someone else, were self-employed, or worked for themselves and someone else before the pandemic, they are then asked to report whether there was a period of two weeks or more when they were not working since March 2020. If the respondent reports that they did not work before the pandemic or that they did work before the pandemic and there was a period of two weeks or more when they were not working since March 2020, they are then asked if they worked for a month or more between March 2020 and March 2021. If the respondent reports that they did work before the pandemic and there was not a period of two weeks or more when they were not working before the pandemic or that they worked for a month or more between March 2020 and March 2021, they are then asked to report whether they worked from home most of the time or worked from a regular workplace most of the time between March 2020 and March 2021. If the respondent reports that they worked from a regular workplace most of the time between March 2020 and March 2021, they are then asked to report how often they worked in close physical contact (within 6 feet) with their co-workers and with people who were not their co-workers. The respondent may report that they "always", "sometimes", or "never" worked in close contact with these populations.

At Round 1, the respondent is asked to report whether they worked in close contact with the general public or their co-workers since the beginning of the COVID-19 pandemic, while at Round 2, the respondent is asked to report whether they worked in close physical contact (within 6 feet) with their co-workers or people who were not their co-workers between March 2020 and March 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCJCONCW indicates whether the respondent worked in close contact with their co-workers at their regular workplace during the COVID-19 pandemic. RrCJCONCW is coded as 0 if the respondent reports that they never worked in close physical contact with their co-workers during the pandemic. RrCJCONCW is coded as 1 if the respondent reports that they sometimes worked in close physical contact with their co-workers during the pandemic. RrCJCONCW is coded as 2 if the respondent reports that they always worked in close physical contact with their co-workers during the pandemic. Special missing value (.w) is assigned if the respondent did not work for pay at any time since the beginning of the pandemic. Special missing value (.h) is assigned if this question was skipped because the respondent did not report working outside their home during the pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJCONCW is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCJCONGP indicates whether the respondent worked in close contact with the general public during the COVID-19 pandemic. RrCJCONGP is coded as 0 if the respondent reports that they never worked in close physical contact with the general public during the pandemic. RrCJCONGP is coded as 1 if the respondent reports that they sometimes worked in close physical contact with the general public during the pandemic. RrCJCONGP is coded as 2 if the respondent reports that they always worked in close physical contact with the general public during the pandemic. Special missing value (.w) is assigned if the respondent did not work during the pandemic. Special missing value (.h) is assigned if this question was skipped because the

respondent did not report working outside their home during the pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCJCONGP is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCJCONCW indicates whether the respondent's spouse worked in close contact with their co-workers at their regular workplace during the COVID-19 pandemic. SrCJCONGP indicates whether the respondent's spouse worked in close contact with the general public/people who were not their co-workers at their regular workplace during the COVID-19 pandemic. SrCJCONCW and SrCJCONGP are taken from the spouse's values to RrCJCONCW and RrCJCONGP, respectively. In addition to the special missing values used in RrCJCONCW and RrCJCONGP, SrCJCONCW and SrCJCONGP employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being couple in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Round 1, the respondent is asked to report whether they worked in close contact with the general public or their co-workers since the beginning of the COVID-19 pandemic, while at Round 2, the respondent is asked to report whether they worked in close physical contact (within 6 feet) with their co-workers or people who were not their co-workers between March 2020 and March 2021. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB072                      q72. work for pay
    RLB072B                     q72b. work outside home
    RLB072C2                    q72c2. in close contact with general public
    RLB072C3                    q72c3. in close contact with co-workers
Round 2 COVID-19 Spring:
    E4_21S                      WORK-BETWEEN MARCH 2020-2021
    E6_21S                      WORK HOME/REG WRK PLACE BETWEEN MARCH 2020-2
    E7_21S                      CLOSE CONTACT WITH CO-WORKERS AT REG WRK PLA
    E8_21S                      CLOSE CONTACT WITH NON-COWORKERS AT REG WRK
Round 2 COVID-19 Fall:
    E4_21F                      WORK-BETWEEN MARCH 2020-2021
    E6_21F                      WORK HOME/REG WRK PLACE BETWEEN MARCH 2020-2
    E7_21F                      CLOSE CONTACT WITH CO-WORKERS AT REG WRK PLA
    E8_21F                      CLOSE CONTACT WITH NON-COWORKERS AT REG WRK
```

Section H: Caregiving

Received Help With Chores During Pandemic

Round	Variable	Label	Type
1	H1CRCHORE	h1crchore:r1 COVID: r+s received help with chores	Categ
2	H2CRCHORE	h2crchore:r2 COVID: r+s received help with chores	Categ
1	H1CRCCHORE	h1crcchore:r1 COVID: r+s recd help with chores from children	Categ
2	H2CRCCHORE	h2crcchore:r2 COVID: r+s recd help with chores from children	Categ
1	H1CROCHORE	h1crochore:r1 COVID: r+s recd help with chores from relative	Categ
2	H2CROCHORE	h2crochore:r2 COVID: r+s recd help with chores from relative	Categ
1	R1CRCHOREF	r1crchoref:r1 COVID: r frequency received help with chores	Categ
1	S1CRCHOREF	s1crchoref:r1 COVID: s frequency received help with chores	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CRCHORE	10308	0.22	0.42	0.00	1.00
H2CRCHORE	11098	0.15	0.36	0.00	1.00
H1CRCCHORE	9515	0.15	0.36	0.00	1.00
H2CRCCHORE	11268	0.11	0.31	0.00	1.00
H1CROCHORE	9129	0.00	0.02	0.00	1.00
H2CROCHORE	11267	0.07	0.26	0.00	1.00
R1CRCHOREF	1728	2.40	0.63	1.00	3.00
S1CRCHOREF	802	2.41	0.64	1.00	3.00

Categorical Variable Codes

Value	H1CRCHORE	H2CRCHORE
.d:DK	16	
.m:Missing	21	472
.r:Refuse	7	
0.No	8012	9445
1.Yes	2296	1653

Value	H1CRCCHORE	H2CRCCHORE
.d:DK	16	
.m:Missing	21	302
.o:Relationship unknown	793	
.r:Refuse	7	
0.No	8043	10067
1.Yes	1472	1201

Value	H1CROCHORE	H2CROCHORE
.d:DK	16	
.m:Missing	21	303
.o:Relationship unknown	1179	
.r:Refuse	7	
0.No	9125	10464
1.Yes	4	803

Value	R1CRCHOREF
.m:Missing	101
.n:Not needed	1969
.s:Not in self-completion q	5682
.x:Not relevant	872
1.Less often	138

```
2.About the same           |           758
3.More often               |           832

Value----------------------|     S1CRCHOREF
.m:Missing                 |            43
.n:Not needed              |          1267
.s:Not in self-completion q|          2248
.u:Unmar                   |          4277
.v:SP NR                   |          1161
.x:Not relevant            |           554
1.Less often               |            66
2.About the same           |           342
3.More often               |           394
```

How Constructed:

At Round 1, the respondent is asked whether anyone outside their household helped them and their spouse, if they have one, with shopping for groceries, errands, rides, or chores due to the COVID-19 pandemic. At Round 1, if the respondent reports that they and their spouse, if they have one, received help with shopping for groceries, errands, rides, or chores, they are then asked who helped them and their relationship to their helper is identified through their OPN (other person number). At Round 2, the respondent is asked whether, because of the coronavirus pandemic, anyone outside their household helped them and their spouse, if they have one, with money or paying bills; shopping for groceries, errands, rides, or chores; or with advice, encouragement, moral or emotional support due to the COVID-19 pandemic. At Round 2, if the respondent reports that they and their spouse, if they have one, received help, they are then asked who helped them and how they were helped. At Round 2, the respondent may report that their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals helped them and their spouse, if they have one, with shopping for groceries, errands, rides, or chores due to the pandemic. At Round 2, the respondent may also report that no one helped them and their spouse, if they have one, with shopping for groceries, errands, rides, or chores due to the pandemic.

HrCRCHORE indicates whether the respondent and their spouse, if they have one, received help with chores from anyone living outside their household due to the COVID-19 pandemic. HrCRCHORE is coded as 0 if the respondent reports that they and their spouse, if they have one, did not receive help with shopping for groceries, errands, rides, or chores from anyone outside their household due to the pandemic. HrCRCHORE is coded as 1 if the respondent reports that they and their spouse, if they have one, received help with shopping for groceries, errands, rides, or chores from anyone outside their household due to the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCRCHORE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

HrCRCCHORE indicates whether the respondent and their spouse, if they have one, received help with chores from non-co-residing children (including grandchildren) due to the COVID-19 pandemic. At Round 1, relationships also include children-in-law and grandchildren-in-law. HrCRCCHORE is coded as 0 if the respondent reports that they and their spouse, if they have one, did not receive help with shopping for groceries, errands, rides, or chores from anyone outside their household due to the pandemic. HrCRCCHORE is also coded as 0 if the respondent reports that they and their spouse, if they have one, received help, but they did not report that they received help with shopping for groceries, errands, rides, or chores from their non-co-residing children due to the pandemic. HrCRCCHORE is coded as 1 if the respondent reports that they and their spouse, if they have one, received help with shopping for groceries, errands, rides, or chores from their non-co-residing children due to the pandemic. At Round 1, special missing value (.o) is assigned if the respondent reports that they and their spouse, if they have one, received help with shopping for groceries, errands, rides, or chores from someone during the pandemic, but their relationship to that person is not provided in the HRS COVID Round 1 data files. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCRCCHORE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

HrCROCHORE indicates whether the respondent and their spouse, if they have one, received help with chores from other non-co-residing relatives/non-relatives due to the COVID-19 pandemic. At Round 1, relationships include parents, parents-in-law, siblings, siblings-in-law, other relatives, and other individuals. At Round 2, relationships include parents/other relatives, friends, neighbors/other non-relatives, and other individuals. HrCROCHORE is coded as 0 if the respondent reports that they and their spouse, if they have one, did not receive help with shopping for groceries, errands, rides, or chores from anyone outside their household due to the pandemic. HrCROCHORE is also coded as 0 if the respondent

reports that they and their spouse, if they have one, received help, but they did not report that they received help with shopping for groceries, errands, rides, or chores from other non-co-residing relatives/non-relatives due to the pandemic. HrCROCHORE is coded as 1 if the respondent reports that they and their spouse, if they have one, received help with shopping for groceries, errands, rides, or chores from other non-co-residing relatives/non-relatives due to the pandemic. At Round 1, special missing value (.o) is assigned if the respondent reports that they and their spouse, if they have one, received help with shopping for groceries, errands, rides, or chores from someone during the pandemic, but their relationship to that person is not provided in the HRS COVID Round 1 data files. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCROCHORE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

At Round 1, respondents are asked whether anyone outside their household helped them to obtain necessities (e.g. food, medications) or arrange emergency household repairs "less often", "about the same", or "more often" since the COVID-19 pandemic began. This question is only asked in Round 1.

RrCRCHOREF indicates how often the respondent has received help with chores from anyone living outside their household compared to before the COVID-19 pandemic. RrCRCHOREF is only available at Round 1. RrCRCHOREF is coded as 1 if the respondent reports that anyone outside their household helped them to obtain necessities (e.g. food, medications) or arrange emergency household repairs less often compared to before the pandemic. RrCRCHOREF is coded as 2 if the respondent reports that anyone outside their household helped them to obtain necessities (e.g. food, medications) or arrange emergency household repairs about the same amount as before the pandemic. RrCRCHOREF is coded as 3 if the respondent reports that anyone outside their household helped them to obtain necessities (e.g. food, medications) or arrange emergency household repairs more often compared to before the pandemic. Special missing value (.n) is assigned if the respondent reports that help with chores was "not needed" during the pandemic. Special missing value (.x) is assigned if the respondent reports that this question is "not relevant" to them. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCRCHOREF is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCRCHOREF indicates how often the respondent's spouse has received help with chores from anyone living outside their household compared to before the COVID-19 pandemic. SrCRCHOREF is taken from the spouse's values to RrCRCHOREF. In addition to the special missing values used in RrCRCHOREF, SrCRCHOREF employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Cross Round Differences in HRS

At Round 1, the respondent is asked whether anyone outside their household helped them and their spouse, if they have one, with shopping for groceries, errands, rides, or chores due to the COVID-19 pandemic. At Round 1, if the respondent reports that they and their spouse, if they have one, received help with shopping for groceries, errands, rides, or chores, they are then asked who helped them and their relationship to their helper is identified through their OPN (other person number). At Round 2, the respondent is asked whether, because of the coronavirus pandemic, anyone outside their household helped them and their spouse, if they have one, with money or paying bills; shopping for groceries, errands, rides, or chores; or with advice, encouragement, moral or emotional support due to the COVID-19 pandemic. At Round 2, if the respondent reports that someone outside their household helped them and their spouse, if they have one, they are then asked who helped them and how they were helped. At Round 2, the respondent may report that their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals helped them and their spouse, if they have one, with shopping for groceries, errands, rides, or chores due to the pandemic. At Round 2, the respondent may also report that no one helped them and their spouse, if they have one, with shopping for groceries, errands, rides, or chores due to the pandemic.

Unlike Round 1, Round 2 does not ask respondents to report whether anyone outside their household helped them to obtain necessities (e.g. food, medications) or arrange emergency household repairs "less often", "about the same", or "more often" since the COVID-19 pandemic began.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW634                    help with chores
    RCOVW654M1                  who helped with chores - 1
    RCOVW654M10                 who helped with chores - 10
    RCOVW654M2                  who helped with chores - 2
    RCOVW654M3                  who helped with chores - 3
    RCOVW654M4                  who helped with chores - 4
    RCOVW654M5                  who helped with chores - 5
    RCOVW654M6                  who helped with chores - 6
    RCOVW654M7                  who helped with chores - 7
    RCOVW654M8                  who helped with chores - 8
    RCOVW654M9                  who helped with chores - 9
    RLB059                      q59. helped you
Round 1 PR_MC:
    OPN                         PN OF KID/HHM/SIB AND THEIR SPOUSES
    RX061_MC                    RELATIONSHIP TO R-UPDATED
Round 2 COVID-19 Spring:
    G7_21S                      NON-HOUSEHOLD MEMBER PROVIDE HELP TO R
    G8B_1_21S                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-CHILD
    G8B_2_21S                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-PAREN
    G8B_3_21S                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-FRIEN
    G8B_4_21S                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-NEIGH
    G8B_5_21S                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-OTHER
    G8B_6_21S                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-NO ON
Round 2 COVID-19 Fall:
    G7_21F                      NON-HOUSEHOLD MEMBER PROVIDE HELP TO R
    G8B_1_21F                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-CHILD
    G8B_2_21F                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-PAREN
    G8B_3_21F                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-FRIEN
    G8B_4_21F                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-NEIGH
    G8B_5_21F                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-OTHER
    G8B_6_21F                   WHO HELPED R WITH-SHOPPING/CHORES/ETC.-NO ON
```

Provided Help With Chores During Pandemic

Round	Variable	Label	Type
1	H1CGCHORE	h1cgchore:r1 COVID: r+s gave help with chores	Categ
2	H2CGCHORE	h2cgchore:r2 COVID: r+s gave help with chores	Categ
1	H1CGCCHORE	h1cgcchore:r1 COVID: r+s gave help with chores to children	Categ
2	H2CGCCHORE	h2cgcchore:r2 COVID: r+s gave help with chores to children	Categ
1	H1CGOCHORE	h1cgochore:r1 COVID: r+s gave help with chores to relatives/	Categ
2	H2CGOCHORE	h2cgochore:r2 COVID: r+s gave help with chores to relatives/	Categ
1	R1CGCHOREF	r1cgchoref:r1 COVID: r frequency gave help with chores	Categ
1	S1CGCHOREF	s1cgchoref:r1 COVID: s frequency gave help with chores	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CGCHORE	10300	0.26	0.44	0.00	1.00
H2CGCHORE	10802	0.23	0.42	0.00	1.00
H1CGCCHORE	8185	0.06	0.24	0.00	1.00
H2CGCCHORE	11259	0.07	0.26	0.00	1.00
H1CGOCHORE	8020	0.00	0.02	0.00	1.00
H2CGOCHORE	11260	0.18	0.39	0.00	1.00
R1CGCHOREF	2412	2.39	0.61	1.00	3.00
S1CGCHOREF	1390	2.42	0.60	1.00	3.00

Categorical Variable Codes

Value	H1CGCHORE	H2CGCHORE
.d:DK	18	
.m:Missing	21	768
.r:Refuse	13	
0.No	7659	8296
1.Yes	2641	2506

Value	H1CGCCHORE	H2CGCCHORE
.d:DK	18	
.m:Missing	21	311
.o:Relationship unknown	2115	
.r:Refuse	13	
0.No	7677	10419
1.Yes	508	840

Value	H1CGOCHORE	H2CGOCHORE
.d:DK	18	
.m:Missing	21	310
.o:Relationship unknown	2280	
.r:Refuse	13	
0.No	8016	9193
1.Yes	4	2067

Value	R1CGCHOREF
.m:Missing	91
.n:Not needed	1410
.s:Not in self-completion q	5682
.x:Not relevant	757
1.Less often	163

```
2.About the same           |          1157
3.More often               |          1092

Value----------------------|     S1CGCHOREF
.m:Missing                 |            40
.n:Not needed              |           846
.s:Not in self-completion q|          2248
.u:Unmar                   |          4277
.v:SP NR                   |          1161
.x:Not relevant            |           390
1.Less often               |            77
2.About the same           |           648
3.More often               |           665
```

How Constructed:

At Round 1, the respondent is asked whether they and their spouse, if they have one, helped anyone outside their household with shopping for groceries, errands, rides, or chores due to the COVID-19 pandemic. At Round 1, if the respondent reports that they and their spouse, if they have one, provided help with shopping for groceries, errands, rides, or chores, they are then asked who they helped and the relationship to the person they helped is identified through their OPN (other person number). At Round 2, the respondent is asked whether, because of the coronavirus pandemic, they and their spouse, if they have one, helped anyone outside their household with money or paying bills; shopping for groceries, errands, rides, or chores; or with advice, encouragement, moral or emotional support due to the COVID-19 pandemic. At Round 2, if the respondent reports that they and their spouse, if they have one, provided help, they are then asked who they helped and how. At Round 2, the respondent may report that they and their spouse, if they have one, helped their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals with shopping for groceries, errands, rides, or chores due to the pandemic. At Round 2, the respondent may also report that they and their spouse, if they have one, helped no one with shopping for groceries, errands, rides, or chores due to the pandemic.

HrCGCHORE indicates whether the respondent and their spouse, if they have one, provided help with chores to anyone living outside their household due to the COVID-19 pandemic. HrCGCHORE is coded as 0 if the respondent reports that they and their spouse, if they have one, did not provide help with shopping for groceries, errands, rides, or chores to anyone outside their household due to the pandemic. HrCGCHORE is coded as 1 if the respondent reports that they and their spouse, if they have one, provided help with shopping for groceries, errands, rides, or chores to anyone outside their household due to the pandemic. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCGCHORE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

HrCGCCHORE indicates whether the respondent and their spouse, if they have one, provided help with chores to non-co-residing children (including grandchildren) due to the COVID-19 pandemic. At Round 1, relationships also include children-in-law and grandchildren-in-law. HrCGCCHORE is coded as 0 if the respondent reports that they and their spouse, if they have one, did not provide help with shopping for groceries, errands, rides, or chores to anyone outside their household due to the pandemic. HrCGCCHORE is also coded as 0 if the respondent reports that they and their spouse, if they have one, provided help, but they did not report that they provided help with shopping for groceries, errands, rides, or chores to their non-co-residing children due to the pandemic. HrCGCCHORE is coded as 1 if the respondent reports that they and their spouse, if they have one, provided help with shopping for groceries, errands, rides, or chores to their non-co-residing children due to the pandemic. At Round 1, special missing value (.o) is assigned if the respondent reports that they and their spouse, if they have one, provided help with shopping for groceries, errands, rides, or chores to someone during the COVID-19 pandemic, but their relationship to that person is not provided in the HRS COVID Round 1 data files. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCGCCHORE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

HrCGOCHORE indicates whether the respondent and their spouse, if they have one, provided help with chores to other non-co-residing relatives/non-relatives due to the COVID-19 pandemic. At Round 1, relationships include parents, parents-in-law, siblings, siblings-in-law, other relatives, and other individuals. At Round 2, relationships include parents/other relatives, friends, neighbors/other non-relatives, and other individuals. HrCGOCHORE is coded as 0 if the respondent reports that they and their spouse, if they have one, did not provide help with shopping for groceries, errands, rides, or chores to anyone outside their household due to the pandemic. HrCGOCHORE is also coded as 0 if the respondent reports that they and their spouse, if they have one, provided help, but they did not report that they provided help with

shopping for groceries, errands, rides, or chores to other non-co-residing relatives/non-relatives due to the pandemic. HrCGOCHORE is coded as 1 if the respondent reports that they and their spouse, if they have one, provided help with shopping for groceries, errands, rides, or chores to other non-co-residing relatives/non-relatives due to the pandemic. At Round 1, special missing value (.o) is assigned if the respondent reports that they and their spouse, if they have one, provided help with shopping for groceries, errands, rides, or chores to someone during the pandemic, but their relationship to that person is not provided in the HRS COVID Round 1 data files. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCGOCHORE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

At Round 1, respondents are asked whether they helped anyone outside their household to obtain necessities (e.g. food, medications) or arrange emergency household repairs "less often", "about the same", or "more often" since the COVID-19 pandemic began. This question is only asked in Round 1.

RrCGCHOREF indicates how often the respondent has provided help with chores to anyone living outside their household compared to before the COVID-19 pandemic. RrCGCHOREF is only available at Round 1. RrCGCHOREF is coded as 1 if the respondent reports that they helped anyone outside their household to obtain necessities (e.g. food, medications) or arrange emergency household repairs less often compared to before the pandemic. RrCGCHOREF is coded as 2 if the respondent reports that they helped anyone outside their household to obtain necessities (e.g. food, medications) or arrange emergency household repairs about the same amount as before the pandemic. RrCGCHOREF is coded as 3 if the respondent reports that they helped anyone outside their household to obtain necessities (e.g. food, medications) or arrange emergency household repairs more often compared to before the pandemic. Special missing value (.n) is assigned if the respondent reports that help with chores was "not needed" during the pandemic. Special missing value (.x) is assigned if the respondent reports that this question is "not relevant" to them. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCGCHOREF is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCGCHOREF indicates how often the respondent's spouse has provided help with chores to anyone living outside their household compared to before the COVID-19 pandemic. SrCGCHOREF is taken from the spouse's values to RrCGCHOREF. In addition to the special missing values used in RrCGCHOREF, SrCGCHOREF employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Cross Round Differences in HRS

At Round 1, the respondent is asked whether they and their spouse, if they have one, helped anyone outside their household with shopping for groceries, errands, rides, or chores due to the COVID-19 pandemic. At Round 1, if the respondent reports that they and their spouse, if they have one, provided help with shopping for groceries, errands, rides, or chores, they are then asked who they helped and the relationship to the person they helped is identified through their OPN (other person number). At Round 2, the respondent is asked whether, because of the coronavirus pandemic, they and their spouse, if they have one, helped anyone outside their household with money or paying bills; shopping for groceries, errands, rides, or chores; or with advice, encouragement, moral or emotional support due to the COVID-19 pandemic. At Round 2, if the respondent reports that they and their spouse, if they have one, provided help, they are then asked who they helped and how. At Round 2, the respondent may report that they and their spouse, if they have one, helped their children/grandchildren, parents/other relatives, friends, neighbors/other non-relatives, or other individuals with shopping for groceries, errands, rides, or chores due to the pandemic. At Round 2, the respondent may also report that they and their spouse, if they have one, helped no one with shopping for groceries, errands, rides, or chores due to the pandemic.

Unlike Round 1, Round 2 does not ask respondents to report whether they helped anyone outside their household to obtain necessities (e.g. food, medications) or arrange emergency household repairs "less often", "about the same", or "more often" since the COVID-19 pandemic began.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RCOVW640                    helped anyone with chores
    RCOVW656M1                  who did you help with chores - 1
    RCOVW656M10                 who did you help with chores - 10
    RCOVW656M2                  who did you help with chores - 2
    RCOVW656M3                  who did you help with chores - 3
    RCOVW656M4                  who did you help with chores - 4
    RCOVW656M5                  who did you help with chores - 5
    RCOVW656M6                  who did you help with chores - 6
    RCOVW656M7                  who did you help with chores - 7
    RCOVW656M8                  who did you help with chores - 8
    RCOVW656M9                  who did you help with chores - 9
    RLB061                      q61. have you helped anyone
Round 1 PR_MC:
    OPN                         PN OF KID/HHM/SIB AND THEIR SPOUSES
    RX061_MC                    RELATIONSHIP TO R-UPDATED
Round 2 COVID-19 Spring:
    G10B_1_21S                  WHOM DID R HELP WITH-ERRANDS-CHILDREN/GRANDC
    G10B_2_21S                  WHOM DID R HELP WITH-ERRANDS-PARENT/OTHER RE
    G10B_3_21S                  WHOM DID R HELP WITH-ERRANDS-FRIEND
    G10B_4_21S                  WHOM DID R HELP WITH-ERRANDS-NEIGHBOR/NON-RE
    G10B_5_21S                  WHOM DID R HELP WITH-ERRANDS-OTHER
    G10B_6_21S                  WHOM DID R HELP WITH-ERRANDS-NO ONE
    G9_21S                      R HELP NON-HOUSEHOLD MEMBER
Round 2 COVID-19 Fall:
    G10B_1_21F                  WHOM DID R HELP WITH-ERRANDS-CHILDREN/GRANDC
    G10B_2_21F                  WHOM DID R HELP WITH-ERRANDS-PARENT/OTHER RE
    G10B_3_21F                  WHOM DID R HELP WITH-ERRANDS-FRIEND
    G10B_4_21F                  WHOM DID R HELP WITH-ERRANDS-NEIGHBOR/NON-RE
    G10B_5_21F                  WHOM DID R HELP WITH-ERRANDS-OTHER
    G10B_6_21F                  WHOM DID R HELP WITH-ERRANDS-NO ONE
    G9_21F                      R HELP NON-HOUSEHOLD MEMBER
```

Section I: Family, Social Contact, and Activities

Living Arrangement

Round	Variable	Label	Type
1	H1CLVWITH	h1clvwith:r1 COVID: living arrangement	Categ
2	H2CLVWITH	h2clvwith:r2 COVID: living arrangement	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CLVWITH	10349	2.61	1.41	1.00	5.00
H2CLVWITH	11236	2.24	1.15	1.00	5.00

Categorical Variable Codes

Value	H1CLVWITH	H2CLVWITH
.m:Missing	3	334
1.Lives alone	2516	2908
2.Lives with spouse only	3785	5359
3.Lives with children only	1003	1199
4.Lives with combination of	1285	922
5.Lives with other househol	1760	848

How Constructed:

HrCLVWITH indicates the respondent's living arrangement during the COVID-19 pandemic. In Round 1, the composition of residents in the household roster, along with the respondent's marital status and the number of respondents to the current wave are used to define this variable. In Round 2, the respondent is asked whether they live alone, and if not, whether they live with their spouse or partner, one or more children or grandchildren, one or more parents, and one or more other people. HrCLVWITH is coded as 1 if the respondent reports that they live at their household by themselves. HrCLVWITH is coded as 2 if the respondent reports that they live at their household with only their spouse. HrCLVWITH is coded as 3 if the respondent reports that they live at their household with only their child/children (or grandchildren in Round 2). HrCLVWITH is coded as 4 if the respondent reports that they live at their household with their spouse and child/children (or grandchildren in Round 2). HrCLVWITH is coded as 5 if the respondent reports that they live at their household with someone other than their spouse or child/children. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. HrCLVWITH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not include a household roster. Rather, Round 2 asks directly whether the respondent lives alone, and if not, who they live with, including their spouse or partner, one or more children or grandchildren (including spouse's or partner's), one or more parents (own or spouse's or partner's), and one or more other people.

Please note that in Round 2, grandchildren cannot be separated from children as they can in Round 1, which may impact the frequencies of codes 3 through 5.

Comparability with the RAND HRS/Harmonized HRS

HrCLVWITH: This variable is comparable to HwLVWITH in the Harmonized HRS.

HRS Variables Used:

RAND HRS:

H15HHRES	h15hhres:w15 number of people in hh
H15HHRESP	h15hhresp:w15 # core respondents in hh

```
    R15MSTAT                    r15mstat:w15 r marital status
Round 1 PR_MC:
    RX056_MC                    RESIDENCY STATUS-UPDATED
    RX061_MC                    RELATIONSHIP TO R-UPDATED
Round 2 COVID-19 Spring:
    G5_21S                      CURRENTLY LIVE ALONE
    G6_1_21S                    LIVES WITH YOU-SPOUSE/PARTNER
    G6_2_21S                    LIVES WITH YOU-CHILDREN/GRANDCHILDREN
    G6_3_21S                    LIVES WITH YOU-PARENT/PARENTS
    G6_4_21S                    LIVES WITH YOU-OTHER PERSON/PEOPLE
Round 2 COVID-19 Fall:
    G5_21F                      CURRENTLY LIVE ALONE
    G6_1_21F                    LIVES WITH YOU-SPOUSE/PARTNER
    G6_2_21F                    LIVES WITH YOU-CHILDREN/GRANDCHILDREN
    G6_3_21F                    LIVES WITH YOU-PARENT/PARENTS
    G6_4_21F                    LIVES WITH YOU-OTHER PERSON/PEOPLE
```

Relationship Changed Due to Pandemic

Round	Variable	Label	Type
1	R1CCRELCH	r1ccrelch:r1 COVID: r relationship changed - children	Categ
2	R2CCRELCH	r2ccrelch:r2 COVID: r relationship changed since March 2020	Categ
1	S1CCRELCH	s1ccrelch:r1 COVID: s relationship changed - children	Categ
2	S2CCRELCH	s2ccrelch:r2 COVID: s relationship changed since March 2020	Categ
1	R1CGRELCH	r1cgrelch:r1 COVID: r relationship changed - grandchildren	Categ
2	R2CGRELCH	r2cgrelch:r2 COVID: r relationship changed since March 2020	Categ
1	S1CGRELCH	s1cgrelch:r1 COVID: s relationship changed - grandchildren	Categ
2	S2CGRELCH	s2cgrelch:r2 COVID: s relationship changed since March 2020	Categ
1	R1CFRELCH	r1cfrelch:r1 COVID: r relationship changed - friends	Categ
2	R2CFRELCH	r2cfrelch:r2 COVID: r relationship changed since March 2020	Categ
1	S1CFRELCH	s1cfrelch:r1 COVID: s relationship changed - friends	Categ
2	S2CFRELCH	s2cfrelch:r2 COVID: s relationship changed since March 2020	Categ
1	R1CNRELCH	r1cnrelch:r1 COVID: r relationship changed - neighbors	Categ
2	R2CNRELCH	r2cnrelch:r2 COVID: r relationship changed since March 2020	Categ
1	S1CNRELCH	s1cnrelch:r1 COVID: s relationship changed - neighbors	Categ
2	S2CNRELCH	s2cnrelch:r2 COVID: s relationship changed since March 2020	Categ
1	R1CRRELCH	r1crrelch:r1 COVID: r relationship changed - other family	Categ
2	R2CRRELCH	r2crrelch:r2 COVID: r relationship changed since March 2020	Categ
1	S1CRRELCH	s1crrelch:r1 COVID: s relationship changed - other family	Categ
2	S2CRRELCH	s2crrelch:r2 COVID: s relationship changed since March 2020	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CCRELCH	3949	2.16	0.47	1.00	3.00
R2CCRELCH	9838	2.19	0.48	1.00	3.00
S1CCRELCH	2370	2.15	0.46	1.00	3.00
S2CCRELCH	5070	2.17	0.46	1.00	3.00
R1CGRELCH	3268	2.08	0.48	1.00	3.00
R2CGRELCH	8166	2.14	0.48	1.00	3.00
S1CGRELCH	1920	2.08	0.47	1.00	3.00
S2CGRELCH	4098	2.13	0.46	1.00	3.00
R1CFRELCH	4215	2.00	0.50	1.00	3.00
R2CFRELCH	10720	2.02	0.48	1.00	3.00
S1CFRELCH	2435	1.99	0.49	1.00	3.00
S2CFRELCH	5387	2.00	0.45	1.00	3.00
R1CNRELCH	3871	2.01	0.45	1.00	3.00
R2CNRELCH	10114	2.02	0.42	1.00	3.00
S1CNRELCH	2251	2.02	0.44	1.00	3.00
S2CNRELCH	5166	2.02	0.39	1.00	3.00

R1CRRELCH	4131	2.06	0.46	1.00	3.00
R2CRRELCH	10362	2.09	0.43	1.00	3.00
S1CRRELCH	2435	2.05	0.45	1.00	3.00
S2CRRELCH	5250	2.08	0.40	1.00	3.00

Categorical Variable Codes

Value	R1CCRELCH	R2CCRELCH
.m:Missing	116	356
.n:Not relevant	605	1376
.s:Not in self-completion q	5682	
1.Worse	165	380
2.About the same	2974	7201
3.Better	810	2257

Value	S1CCRELCH	S2CCRELCH
.m:Missing	48	93
.n:Not relevant	248	489
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Worse	97	176
2.About the same	1820	3873
3.Better	453	1021

Value	R1CGRELCH	R2CGRELCH
.m:Missing	144	421
.n:Not relevant	1258	2983
.s:Not in self-completion q	5682	
1.Worse	249	433
2.About the same	2497	6117
3.Better	522	1616

Value	S1CGRELCH	S2CGRELCH
.m:Missing	63	125
.n:Not relevant	683	1429
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Worse	144	195
2.About the same	1481	3171
3.Better	295	732

Value	R1CFRELCH	R2CFRELCH
.m:Missing	95	373
.n:Not relevant	360	477
.s:Not in self-completion q	5682	
1.Worse	541	1095
2.About the same	3150	8290
3.Better	524	1335

Value	S1CFRELCH	S2CFRELCH
.m:Missing	36	101
.n:Not relevant	195	164
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Worse	307	540
2.About the same	1851	4284
3.Better	277	563

Value	R1CNRELCH	R2CNRELCH
.m:Missing	102	403
.n:Not relevant	697	1053
.s:Not in self-completion q	5682	
1.Worse	362	785
2.About the same	3090	8326
3.Better	419	1003

Value	S1CNRELCH	S2CNRELCH
.m:Missing	41	117
.n:Not relevant	374	369
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Worse	197	355
2.About the same	1810	4363
3.Better	244	448

Value	R1CRRELCH	R2CRRELCH
.m:Missing	120	433
.n:Not relevant	419	775
.s:Not in self-completion q	5682	
1.Worse	331	514
2.About the same	3235	8379
3.Better	565	1469

Value	S1CRRELCH	S2CRRELCH
.m:Missing	42	114
.n:Not relevant	189	288
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Worse	193	220
2.About the same	1928	4385
3.Better	314	645

How Constructed:

At Rounds 1 and 2, respondents are asked to report how the quality of their relationships with people outside their household changed during the COVID-19 pandemic compared to before the pandemic. Types of relationships include children, grandchildren, other family members, friends, and neighbors. At Round 2, respondents are also asked to report how the quality of their relationship with their parents or in-laws changed during the COVID-19 pandemic compared to before the pandemic. At Rounds 1 and 2, respondents may report that the quality of their relationships was "better", "worse", or "about the same" during the pandemic compared to before the pandemic. At Round 1, respondents may also report that these questions are "not relevant" to them. At Round 2, respondents may also report "doesn't apply to me" to these questions. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how the quality of their relationships with people outside their household changed since the beginning of the pandemic compared to before the pandemic, while Round 2 asks respondents to report how the quality of their relationships with people outside their household changed since March 2020 compared to before the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCCRELCH, RrCGRELCH, RrCFRELCH, and RrCNRELCH indicate how the quality of the respondent's relationships changed during the COVID-19 pandemic compared to before the pandemic. These variables are coded as 1 if the respondent reports that the quality of their relationship is worse compared to before the pandemic. These variables are coded as 2 if the respondent reports that the quality of their relationship is about the same as before the pandemic. These variables are coded as 3 if the respondent reports that the quality of their relationship is better compared to before the pandemic. At Round 1, special missing value (.n) is assigned if the respondent reports that this question is "not relevant" to them. At Round 2, special missing value (.n) is assigned if the respondent reports that this question "doesn't apply to me". At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. These variables are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCRELCH indicates how the quality of the respondent's relationship with non-co-residing children changed during the COVID-19 pandemic compared to before the pandemic.

RrCGRELCH indicates how the quality of the respondent's relationship with non-co-residing grandchildren changed during the COVID-19 pandemic compared to before the pandemic.

RrCFRELCH indicates how the quality of the respondent's relationship with non-co-residing friends changed during the COVID-19 pandemic compared to before the pandemic.

RrCNRELCH indicates how the quality of the respondent's relationship with their neighbors changed during the COVID-19 pandemic compared to before the pandemic.

RrCRRELCH indicates how the quality of the respondent's relationship with other non-co-residing family members (not including children or grandchildren) changed during the COVID-19 pandemic compared to before the pandemic. At Round 2, RrCRRELCH also includes a separate category for parents and in-laws. At Round 1, RrCRRELCH is coded as 1 if the respondent reports that the quality of their relationship with other non-co-residing family members is worse compared to before the pandemic. At Round 1, RrCRRELCH is coded as 2 if the respondent reports that the quality of their relationship with other non-co-residing family members is about the same as before the pandemic. At Round 1, RrCRRELCH is coded as 3 if the respondent reports that the quality of their relationship with other non-co-residing family members is better compared to before the pandemic. At Round 2, RrCRRELCH is coded as 1 if the respondent reports that the quality of their relationship with their parents or in-laws, or other non-co-residing family members is worse compared to before the pandemic. At Round 2, RrCRRELCH is coded as 2 if the respondent reports that the quality of their relationship with their parents or in-laws, or other non-co-residing family members is about the same as before the pandemic. At Round 2, RrCRRELCH is coded as 3 if the respondent reports that the quality of their relationship with their parents or in-laws, or other non-co-residing family members is better compared to before the pandemic. At Round 1, special missing value (.n) is assigned if the respondent reports that this question is "not relevant" to them. At Round 2, special missing value (.n) is assigned if the respondent reports "doesn't apply to me" to both questions related to relationship with parents or in-laws and relationship with other family members. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCRRELCH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCRELCH indicates how the quality of the respondent's spouse's relationship with non-co-residing children changed during the COVID-19 pandemic compared to before the pandemic. SrCGRELCH indicates how the quality of the respondent's spouse's relationship with non-co-residing grandchildren changed during the COVID-19 pandemic compared to before the pandemic. SrCFRELCH indicates how the quality of the respondent's spouse's relationship with non-co-residing friends changed during the COVID-19 pandemic compared to before the pandemic. SrCNRELCH indicates how the quality of the respondent's spouse's relationship with their neighbors changed during the COVID-19 pandemic compared to before the pandemic. SrCRRELCH indicates how the quality of the respondent's spouse's relationship with other non-co-residing family members (not including children or grandchildren) changed during the COVID-19 pandemic compared to before the pandemic. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how the quality of their relationships with people outside their household changed since the beginning of the pandemic compared to before the pandemic, while Round 2 asks respondents to report how the quality of their relationships with people outside their household changed since March 2020 compared to before the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, respondents may report that these questions are "not relevant" to them, while at Round 2 respondents may report "doesn't apply to me" to these questions. Despite this difference in wording, we believe these reports to be comparable.

Unlike Round 2, Round 1 does not ask respondents to report how the quality of their relationship with their parents or in-laws changed since March 2020 compared to before the pandemic.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB063A                     q63a. your children
    RLB063B                     q63b. your grandchildren
    RLB063C                     q63c. other family members
    RLB063D                     q63d. your friends
    RLB063E                     q63e. your neighbors
Round 2 COVID-19 Spring:
    H11A_21S                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11B_21S                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11C_21S                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11D_21S                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11E_21S                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11F_21S                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
Round 2 COVID-19 Fall:
    H11A_21F                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11B_21F                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11C_21F                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11D_21F                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11E_21F                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
    H11F_21F                    QUALITY OF RELATIONSHIP 3/2020-3/2021 CHANGE
```

Any Weekly Contact with Children in Person, by Phone, Mail, E-mail, or Social Media

Round	Variable	Label	Type
1	R1CKCNTF	r1ckcntf:r1 COVID: r any weekly contact w/ children in perso	Categ
1	S1CKCNTF	s1ckcntf:r1 COVID: s any weekly contact w/ children in perso	Categ
1	R1CKCNTPM	r1ckcntpm:r1 COVID: r any weekly contact w/ children by phon	Categ
1	S1CKCNTPM	s1ckcntpm:r1 COVID: s any weekly contact w/ children by phon	Categ
1	R1CKCNT	r1ckcnt:r1 COVID: r any weekly contact w/ children in person	Categ
1	S1CKCNT	s1ckcnt:r1 COVID: s any weekly contact w/ children in person	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CKCNTF	3934	0.37	0.48	0.00	1.00
S1CKCNTF	2365	0.35	0.48	0.00	1.00
R1CKCNTPM	4005	0.80	0.40	0.00	1.00
S1CKCNTPM	2389	0.80	0.40	0.00	1.00
R1CKCNT	4008	0.82	0.38	0.00	1.00
S1CKCNT	2391	0.82	0.38	0.00	1.00

Categorical Variable Codes

Value	R1CKCNTF
.k:No children	510
.m:Missing	226
.s:Not in self-completion q	5682
0.No	2459
1.Yes	1475

Value	S1CKCNTF
.k:No children	210
.m:Missing	91
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.No	1539
1.Yes	826

Value	R1CKCNTPM
.k:No children	510
.m:Missing	155
.s:Not in self-completion q	5682
0.No	789
1.Yes	3216

Value	S1CKCNTPM
.k:No children	210
.m:Missing	67
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.No	474
1.Yes	1915

Value	R1CKCNT
.k:No children	510
.m:Missing	152
.s:Not in self-completion q	5682
0.No	706
1.Yes	3302

Value	S1CKCNT
.k:No children	210
.m:Missing	65
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.No	425
1.Yes	1966

How Constructed:

In the self-completion questionnaire at Round 1, the respondent is asked whether they have any living children, and if so, the respondent is then asked a series of questions about their contact with their children. Respondents are asked about their average contact with their non-co-residing children in person, by phone, mail, e-mail, or social media. Respondents can report contact using the following categories: three or more times a week, once or twice a week, once or twice a month, every few months, once or twice a year, or less than once a year or never. Weekly contact is defined as the respondent contacting their children three or more times a week, or once or twice a week.

RrCKCNTF indicates whether the respondent has any frequent (i.e., at least weekly) contact with their non-co-residing children in person. RrCKCNTF is only available at Round 1. RrCKCNTF is coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing children in person. RrCKCNTF is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing children in person. Special missing value (.k) is assigned if the respondent reports that they have no living children. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCKCNTF is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCKCNTPM indicates whether the respondent has any frequent (i.e., at least weekly) contact with their non-co-residing children by phone, mail, e-mail, or social media. RrCKCNTPM is only available at Round 1. RrCKCNTPM is coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing children by phone, mail, e-mail, or social media. RrCKCNTPM is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing children by phone, mail, e-mail, or social media. Special missing value (.k) is assigned if the respondent reports that they have no living children. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCKCNTPM is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCKCNT indicates whether the respondent has any frequent (i.e., at least weekly) contact with their non-co-residing children in person, by phone, mail, e-mail, or social media. RrCKCNT is only available at Round 1. RrCKCNT is coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing children in person, by phone, mail, e-mail, or social media. RrCKCNT is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing children in person, by phone, mail, e-mail, or social media. Special missing value (.k) is assigned if the respondent reports that they have no living children. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCKCNT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCKCNTF indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with their non-co-residing children in person. SrCKCNTPM indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with their non-co-residing children by phone, mail, e-mail, or social media. SrCKCNT indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with their non-co-residing children in person, by phone, mail, e-mail, or social media. SrCKCNTF, SrCKCNTPM, and SrCKCNT are taken from the spouse's values to RrCKCNTF, RrCKCNTPM, and RrCKCNT, respectively. In addition to the special missing values employed by RrCKCNTF, RrCKCNTPM, and RrCKCNT,

SrCKCNTF, SrCKCNTPM, and SrCKCNT employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to report their average contact with their non-co-residing children in person, by phone, mail, e-mail, or social media.

Comparability with the RAND HRS/Harmonized HRS

RrCKCNTF: This variable is comparable to RwKCNTF in the Harmonized HRS.

RrCKCNTPM: This variable is comparable to RwKCNTPM in the Harmonized HRS.

RrCKCNT: This variable is comparable to RwKCNT in the Harmonized HRS, which also includes HwKCNT, indicating whether the respondent and/or their spouse (if applicable) were in weekly contact with at least one child in the past year.

HRS Variables Used:

Round 1 COVID-19:

RLB006	q06. have any children
RLB008A	q08a. meet up with children
RLB008B	q08b. speak on phone with children
RLB008C	q08c. write or email children
RLB008D	q08d. communicate by social media

Any Weekly Contact with Relatives or Friends in Person, by Phone, Mail, E-mail, or Social Media

Round	Variable	Label	Type
1	R1CRFCNTF	r1crfcntf:r1 COVID: r any weekly contact w/ relative or frie	Categ
1	S1CRFCNTF	s1crfcntf:r1 COVID: s any weekly contact w/ relative or frie	Categ
1	R1CRFCNTPM	r1crfcntpm:r1 COVID: r any weekly contact w/ relative or fri	Categ
1	S1CRFCNTPM	s1crfcntpm:r1 COVID: s any weekly contact w/ relative or fri	Categ
1	R1CRFCNT	r1crfcnt:r1 COVID: r any weekly contact w/ relative or frien	Categ
1	S1CRFCNT	s1crfcnt:r1 COVID: s any weekly contact w/ relative or frien	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CRFCNTF	4634	0.40	0.49	0.00	1.00
S1CRFCNTF	2655	0.37	0.48	0.00	1.00
R1CRFCNTPM	4650	0.77	0.42	0.00	1.00
S1CRFCNTPM	2659	0.74	0.44	0.00	1.00
R1CRFCNT	4651	0.79	0.40	0.00	1.00
S1CRFCNT	2659	0.77	0.42	0.00	1.00

Categorical Variable Codes

Value	R1CRFCNTF
.m:Missing	36
.s:Not in self-completion q	5682
0.No	2765
1.Yes	1869

Value	S1CRFCNTF
.m:Missing	11
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.No	1683
1.Yes	972

Value	R1CRFCNTPM
.m:Missing	20
.s:Not in self-completion q	5682
0.No	1077
1.Yes	3573

Value	S1CRFCNTPM
.m:Missing	7
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.No	698
1.Yes	1961

Value	R1CRFCNT
.m:Missing	19
.s:Not in self-completion q	5682

```
0.No                        |           955
1.Yes                       |          3696

Value----------------------|       S1CRFCNT
.m:Missing                  |             7
.s:Not in self-completion q|          2248
.u:Unmar                    |          4277
.v:SP NR                    |          1161
0.No                        |           624
1.Yes                       |          2035
```

How Constructed:

In the self-completion questionnaire at Round 1, the respondent is asked whether they have any non-child relatives (parents, siblings, grandchildren, or cousins), and if so, the respondent is then asked a series of questions about their contact with their non-child relatives. The respondent is asked whether they have any friends, and if so, the respondent is then asked a series of questions about their contact with their friends. Respondents are asked about their average contact with non-co-residing relatives and friends in person, by phone, mail, e-mail, or social media. Respondents can report contact using the following categories: three or more times a week, once or twice a week, once or twice a month, every few months, once or twice a year, or less than once a year or never. Weekly contact is defined as the respondent contacting their relatives or friends three or more times a week, or once or twice a week.

RrCRFCNTF indicates whether the respondent has any frequent (i.e., at least weekly) contact with their non-co-residing relatives or friends in person. RrCRFCNTF is only available at Round 1. RrCRFCNTF is coded as 0 if the respondent reports that they have no relatives or friends. RrCRFCNTF is also coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing relatives or friends in person. RrCRFCNTF is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing relatives or friends in person. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCRFCNTF is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCRFCNTPM indicates whether the respondent has any frequent (i.e., at least weekly) contact with their non-co-residing relatives or friends by phone, mail, e-mail, or social media. RrCRFCNTPM is only available at Round 1. RrCRFCNTPM is coded as 0 if the respondent reports that they have no relatives or friends. RrCRFCNTPM is also coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing relatives or friends by phone, mail, e-mail, or social media. RrCRFCNTPM is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing relatives or friends by phone, mail, e-mail, or social media. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCRFCNTPM is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCRFCNT indicates whether the respondent has any frequent (i.e., at least weekly) contact with their non-co-residing relatives or friends in person, by phone, mail, e-mail, or social media. RrCRFCNT is only available at Round 1. RrCRFCNT is coded as 0 if the respondent reports that they have no relatives or friends. RrCRFCNT is also coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing relatives or friends in person, by phone, mail, e-mail, or social media. RrCRFCNT is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing relatives or friends in person, by phone, mail, e-mail, or social media. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCRFCNT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCRFCNTF indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with their non-co-residing relatives or friends in person. SrCRFCNTPM indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with their non-co-residing relatives or friends by phone, mail, e-mail, or social media. SrCRFCNT indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with their non-co-residing relatives or friends in person, by phone, mail, e-mail, or social media. SrCRFCNTF, SrCRFCNTPM, and SrCRFCNT are taken from the spouse's values to RrCRFCNTF, RrCRFCNTPM, and RrCRFCNT, respectively. In addition to the special missing values employed by RrCRFCNTF, RrCRFCNTPM, and RrCRFCNT, SrCRFCNTF, SrCRFCNTPM, and SrCRFCNT employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not

report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Please note that respondents are asked separately about the frequency of contact with their relatives and friends. The frequency of contact with relatives and friends has been combined in the Harmonized HRS COVID, but comparable variables considering only relatives or considering only friends can be created based on the HRS data.

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to report their average contact with their non-co-residing relatives and friends in person, by phone, mail, e-mail, or social media.

Comparability with the RAND HRS/Harmonized HRS

RrCRFCNTF: This variable is comparable to RwRFCNTF in the Harmonized HRS.

RrCRFCNTPM: This variable is comparable to RwRFCNTPM in the Harmonized HRS.

RrCRFCNT: This variable is comparable to RwRFCNT in the Harmonized HRS.

HRS Variables Used:

Round 1 COVID-19:

RLB010	q10. any other immediate family
RLB012A	q12a. meet up with oth fam mems
RLB012B	q12b. speak on phone with fam mem
RLB012C	q12c. write or email oth fam mems
RLB012D	q12d. communicate by social media
RLB014	q14. have any friends
RLB016A	q16a. meet up with friends
RLB016B	q16b. speak on phone with friends
RLB016C	q16c. write or email friends
RLB016D	q16d. communicate by social media

Any Weekly Contact with Anyone Outside Household in Person, by Phone, Mail, E-mail, or Social Media

Round	Variable	Label	Type
1	R1CCNTF	r1ccntf:r1 COVID: r any weekly contact w/ anyone outside hho	Categ
1	S1CCNTF	s1ccntf:r1 COVID: s any weekly contact w/ anyone outside hho	Categ
1	R1CCNTPM	r1ccntpm:r1 COVID: r any weekly contact w/ anyone outside hh	Categ
1	S1CCNTPM	s1ccntpm:r1 COVID: s any weekly contact w/ anyone outside hh	Categ
1	R1CCNT	r1ccnt:r1 COVID: r any weekly contact w/ anyone outside hhol	Categ
1	S1CCNT	s1ccnt:r1 COVID: s any weekly contact w/ anyone outside hhol	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CCNTF	4650	0.54	0.50	0.00	1.00
S1CCNTF	2659	0.51	0.50	0.00	1.00
R1CCNTPM	4658	0.90	0.31	0.00	1.00
S1CCNTPM	2660	0.89	0.31	0.00	1.00
R1CCNT	4658	0.91	0.28	0.00	1.00
S1CCNT	2660	0.90	0.29	0.00	1.00

Categorical Variable Codes

Value	R1CCNTF
.m:Missing	20
.s:Not in self-completion q	5682
0.No	2118
1.Yes	2532

Value	S1CCNTF
.m:Missing	7
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.No	1290
1.Yes	1369

Value	R1CCNTPM
.m:Missing	12
.s:Not in self-completion q	5682
0.No	487
1.Yes	4171

Value	S1CCNTPM
.m:Missing	6
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
0.No	293
1.Yes	2367

Value	R1CCNT
.m:Missing	12
.s:Not in self-completion q	5682

```
0.No                        |           406
1.Yes                       |          4252

Value----------------------|         S1CCNT
.m:Missing                  |             6
.s:Not in self-completion q|          2248
.u:Unmar                    |          4277
.v:SP NR                    |          1161
0.No                        |           253
1.Yes                       |          2407
```

How Constructed:

In the self-completion questionnaire at Round 1, the respondent is asked whether they have any living children, and if so, the respondent is then asked a series of questions about their contact with their children. The respondent is asked whether they have any non-child relatives (parents, siblings, grandchildren, or cousins), and if so, the respondent is then asked a series of questions about their contact with their non-child relatives. The respondent is asked whether they have any friends, and if so, the respondent is then asked a series of questions about their contact with their friends. Respondents are asked about their average contact with non-co-residing children, relatives, and friends in person, by phone, mail, e-mail, or social media. Respondents can report contact using the following categories: three or more times a week, once or twice a week, once or twice a month, every few months, once or twice a year, or less than once a year or never. Weekly contact is defined as the respondent contacting their children, relatives, or friends three or more times a week, or once or twice a week.

RrCCNTF indicates whether the respondent has any frequent (i.e., at least weekly) contact with anyone outside their household in person. RrCCNTF is only available at Round 1. RrCCNTF summarizes the information found in RrCKCNTF and RrCRFCNTF. RrCCNTF is coded as 0 if the respondent reports that they have no children, non-child relatives, or friends. RrCCNTF is also coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing children, non-child relatives, or friends in person. RrCCNTF is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing children, non-child relatives, or friends in person. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCNTF is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCNTPM indicates whether the respondent has any frequent (i.e., at least weekly) contact with anyone outside their household by phone, mail, e-mail, or social media. RrCCNTPM is only available at Round 1. RrCCNTPM summarizes the information found in RrCKCNTPM and RrCRFCNTPM. RrCCNTPM is coded as 0 if the respondent reports that they have no children, non-child relatives, or friends. RrCCNTPM is also coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing children, non-child relatives, or friends by phone, mail, e-mail, or social media. RrCCNTPM is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing children, non-child relatives, or friends by phone, mail, e-mail, or social media. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCNTPM is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCNT indicates whether the respondent has any frequent (i.e., at least weekly) contact with anyone outside their household in person, by phone, mail, e-mail, or social media. RrCCNT is only available at Round 1. RrCCNT summarizes the information found in RrCKCNT and RrCRFCNT. RrCCNT is coded as 0 if the respondent reports that they have no children, non-child relatives, or friends. RrCCNT is also coded as 0 if the respondent reports that they do not have weekly contact with their non-co-residing children, non-child relatives, or friends in person, by phone, mail, e-mail, or social media. RrCCNT is coded as 1 if the respondent reports that they have weekly contact with their non-co-residing children, non-child relatives, or friends in person, by phone, mail, e-mail, or social media. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCNT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCNTF indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with anyone outside their household in person. SrCCNTPM indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with anyone outside their household by phone, mail, e-mail, or social media. SrCCNT indicates whether the respondent's spouse has any frequent (i.e., at least weekly) contact with anyone outside their household in person, by phone, mail, e-mail, or social media. SrCCNTF,

SrCCNTPM, and SrCCNT are taken from the spouse's values to RrCCNTF, RrCCNTPM, and RrCCNT, respectively. In addition to the special missing values employed by RrCCNTF, RrCCNTPM, and RrCCNT, SrCCNTF, SrCCNTPM, and SrCCNT employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Please note that respondents are asked separately about the frequency of contact with their children, non-child relatives and friends.

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to report their average contact with their non-co-residing relatives and friends in person, by phone, mail, e-mail, or social media.

Comparability with the RAND HRS/Harmonized HRS

RrCCNTF: This variable is related to both RwKCNTF and RwRFCNTF in the Harmonized HRS. RwKCNTF indicates whether the respondent has any frequent (i.e., at least weekly) contact with any of their children in person. RwRFCNTF indicates whether the respondent has any frequent (i.e., at least weekly) contact with any of their relatives or friends in person. A comparable variable can be created in the Harmonized HRS by combining RwKCNTF and RrRFCNTF.

RrCCNTPM: This variable is related to both RwKCNTPM and RwRFCNTPM in the Harmonized HRS. RwKCNTPM indicates whether the respondent has any frequent (i.e., at least weekly) contact with any of their children on the phone, by mail, or by e-mail. RwRFCNTPM indicates whether the respondent has any frequent (i.e., at least weekly) contact with any of their relatives or friends on the phone, by mail, or by e-mail. A comparable variable can be created in the Harmonized HRS by combining RwKCNTPM and RwRFCNTPM.

RrCCNT: This variable is related to both RwKCNT and RwRFCNT in the Harmonized HRS. RwKCNTF indicates whether the respondent has any frequent (i.e., at least weekly) contact with any of their children in person, on the phone, by mail, or by e-mail. RwRFCNTF indicates whether the respondent has any frequent (i.e., at least weekly) contact with any of their relatives or friends in person, on the phone, by mail, or by e-mail. A comparable variable can be created in the Harmonized HRS by combining RwKCNT and RwRFCNT.

HRS Variables Used:

Round 1 COVID-19:

RLB006	q06. have any children
RLB008A	q08a. meet up with children
RLB008B	q08b. speak on phone with children
RLB008C	q08c. write or email children
RLB008D	q08d. communicate by social media
RLB010	q10. any other immediate family
RLB012A	q12a. meet up with oth fam mems
RLB012B	q12b. speak on phone with fam mem
RLB012C	q12c. write or email oth fam mems
RLB012D	q12d. communicate by social media
RLB014	q14. have any friends
RLB016A	q16a. meet up with friends
RLB016B	q16b. speak on phone with friends
RLB016C	q16c. write or email friends
RLB016D	q16d. communicate by social media

Electronic Contact Changed Due to Pandemic

Round	Variable	Label	Type
1	R1CCECONCH	r1cceconch:r1 COVID: r e-contact changed - children	Categ
2	R2CCECONCH	r2cceconch:r2 COVID: r e-contact changed 1st yr pndmc - chil	Categ
1	S1CCECONCH	s1cceconch:r1 COVID: s e-contact changed - children	Categ
2	S2CCECONCH	s2cceconch:r2 COVID: s e-contact changed 1st yr pndmc - chil	Categ
1	R1CGECONCH	r1cgeconch:r1 COVID: r e-contact changed - grandchildren	Categ
2	R2CGECONCH	r2cgeconch:r2 COVID: r e-contact changed 1st yr pndmc - gran	Categ
1	S1CGECONCH	s1cgeconch:r1 COVID: s e-contact changed - grandchildren	Categ
2	S2CGECONCH	s2cgeconch:r2 COVID: s e-contact changed 1st yr pndmc - gran	Categ
1	R1CFECONCH	r1cfeconch:r1 COVID: r e-contact changed - friends	Categ
2	R2CFECONCH	r2cfeconch:r2 COVID: r e-contact changed 1st yr pndmc - frie	Categ
1	S1CFECONCH	s1cfeconch:r1 COVID: s e-contact changed - friends	Categ
2	S2CFECONCH	s2cfeconch:r2 COVID: s e-contact changed 1st yr pndmc - frie	Categ
1	R1CNECONCH	r1cneconch:r1 COVID: r e-contact changed - neighbors	Categ
2	R2CNECONCH	r2cneconch:r2 COVID: r e-contact changed 1st yr pndmc - neig	Categ
1	S1CNECONCH	s1cneconch:r1 COVID: s e-contact changed - neighbors	Categ
2	S2CNECONCH	s2cneconch:r2 COVID: s e-contact changed 1st yr pndmc - neig	Categ
1	R1CRECONCH	r1creconch:r1 COVID: r e-contact changed - other family	Categ
2	R2CRECONCH	r2creconch:r2 COVID: r e-contact changed 1st yr pndmc - othe	Categ
1	S1CRECONCH	s1creconch:r1 COVID: s e-contact changed - other family	Categ
2	S2CRECONCH	s2creconch:r2 COVID: s e-contact changed 1st yr pndmc - othe	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CCECONCH	3890	2.24	0.59	1.00	3.00
R2CCECONCH	9562	2.30	0.60	1.00	3.00
S1CCECONCH	2356	2.24	0.59	1.00	3.00
S2CCECONCH	4929	2.32	0.59	1.00	3.00
R1CGECONCH	3167	2.09	0.63	1.00	3.00
R2CGECONCH	7877	2.21	0.63	1.00	3.00
S1CGECONCH	1870	2.10	0.63	1.00	3.00
S2CGECONCH	3953	2.24	0.62	1.00	3.00
R1CFECONCH	4180	2.02	0.70	1.00	3.00
R2CFECONCH	10437	2.10	0.69	1.00	3.00
S1CFECONCH	2416	2.01	0.70	1.00	3.00
S2CFECONCH	5237	2.12	0.68	1.00	3.00
R1CNECONCH	3607	1.91	0.63	1.00	3.00
R2CNECONCH	9568	1.94	0.58	1.00	3.00
S1CNECONCH	2100	1.91	0.63	1.00	3.00
S2CNECONCH	4867	1.95	0.56	1.00	3.00

R1CRECONCH	4139	2.10	0.63	1.00	3.00
R2CRECONCH	10034	2.21	0.63	1.00	3.00
S1CRECONCH	2436	2.11	0.63	1.00	3.00
S2CRECONCH	5088	2.24	0.62	1.00	3.00

Categorical Variable Codes

Value	R1CCECONCH	R2CCECONCH
.m:Missing	108	385
.n:Not relevant	672	1623
.s:Not in self-completion q	5682	
1.Decrease	322	695
2.About the same	2321	5308
3.Increase	1247	3559

Value	S1CCECONCH	S2CCECONCH
.m:Missing	34	117
.n:Not relevant	276	606
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Decrease	199	318
2.About the same	1400	2694
3.Increase	757	1917

Value	R1CGECONCH	R2CGECONCH
.m:Missing	161	468
.n:Not relevant	1342	3225
.s:Not in self-completion q	5682	
1.Decrease	498	893
2.About the same	1892	4460
3.Increase	777	2524

Value	S1CGECONCH	S2CGECONCH
.m:Missing	65	153
.n:Not relevant	731	1546
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Decrease	282	399
2.About the same	1120	2203
3.Increase	468	1351

Value	R1CFECONCH	R2CFECONCH
.m:Missing	94	400
.n:Not relevant	396	733
.s:Not in self-completion q	5682	
1.Decrease	989	1995
2.About the same	2127	5362
3.Increase	1064	3080

Value	S1CFECONCH	S2CFECONCH
.m:Missing	32	127
.n:Not relevant	218	288
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Decrease	576	948
2.About the same	1241	2731
3.Increase	599	1558

Value	R1CNECONCH	R2CNECONCH
.m:Missing	96	421
.n:Not relevant	967	1581
.s:Not in self-completion q	5682	
1.Decrease	895	1894
2.About the same	2153	6363
3.Increase	559	1311

Value	S1CNECONCH	S2CNECONCH
.m:Missing	35	135
.n:Not relevant	531	650
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Decrease	510	896
2.About the same	1263	3327
3.Increase	327	644

Value	R1CRECONCH	R2CRECONCH
.m:Missing	118	456
.n:Not relevant	413	1080
.s:Not in self-completion q	5682	
1.Decrease	644	1125
2.About the same	2444	5667
3.Increase	1051	3242

Value	S1CRECONCH	S2CRECONCH
.m:Missing	39	143
.n:Not relevant	191	421
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Decrease	372	499
2.About the same	1434	2868
3.Increase	630	1721

How Constructed:

At Rounds 1 and 2, respondents are asked to report how the amount of electronic contact in their relationships with people outside their household changed during the COVID-19 pandemic compared to before the pandemic. Electronic contact includes using the phone, email, Facetime, Facebook, Skype, Zoom, or social media. Types of relationships include children, grandchildren, other family members, friends, and neighbors. At Round 2, respondents are also asked to report how the amount of electronic contact with their parents or in-laws changed during the COVID-19 pandemic compared to before the pandemic. At Rounds 1 and 2, respondents may report that the amount of electronic contact in their relationships with people outside their household "increased", "decreased", or was "about the same" during the pandemic compared to before the pandemic. At Round 1, respondents may also report that these questions are "not relevant" to them. At Round 2, respondents may also report "doesn't apply to me" to these questions. It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how the amount of electronic contact with people outside their household changed since the beginning of the pandemic compared to before the pandemic, while Round 2 asks respondents to report how the amount of electronic contact with people outside their household changed during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to before the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCCECONCH, RrCGECONCH, RrCFECONCH, and RrCNECONCH indicate how the amount of electronic contact in the respondent's relationships changed during the COVID-19 pandemic compared to before the pandemic. These variables are coded as 1 if the respondent reports that the amount of electronic contact decreased compared to before the pandemic. These variables are coded as 2 if the respondent reports that the amount of electronic contact was about the same as before the pandemic. These variables are coded as 3 if the respondent reports that the amount of electronic contact increased compared to before the pandemic. At Round 1, special missing value (.n) is assigned if the respondent reports that this question is "not relevant" to them. At Round 2, special missing value (.n) is assigned if the respondent reports that this question "doesn't apply to me". At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. These variables are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCECONCH indicates how the amount of electronic contact between the respondent and their non-co-residing children changed during the COVID-19 pandemic compared to before the pandemic.

RrCGECONCH indicates how the amount of electronic contact between the respondent and their non-co-residing grandchildren changed during the COVID-19 pandemic compared to before the pandemic.

RrCFECONCH indicates how the amount of electronic contact between the respondent and their non-co-residing friends changed during the COVID-19 pandemic compared to before the pandemic.

RrCNECONCH indicates how the amount of electronic contact between the respondent and their neighbors changed during the COVID-19 pandemic compared to before the pandemic.

RrCRECONCH indicates how the amount of electronic contact between the respondent and their other non-co-residing family members (not including children or grandchildren) changed during the COVID-19 pandemic compared to before the pandemic. At Round 2, RrCRECONCH also includes a category for parents or in-laws. At Round 1, RrCRECONCH is coded as 1 if the respondent reports that the amount of electronic contact with other non-co-residing family members decreased compared to before the pandemic. At Round 1, RrCRECONCH is coded as 2 if the respondent reports that the amount of electronic contact with other non-co-residing family members was about the same as before the pandemic. At Round 1, RrCRECONCH is coded as 3 if the respondent reports that the amount of electronic contact with other non-co-residing family members increased compared to before the pandemic. At Round 2, RrCRECONCH is coded as 1 if the respondent reports that the amount of electronic contact with their parents or in-laws, or other non-co-residing family members decreased compared to before the pandemic. At Round 2, RrCRECONCH is coded as 2 if the respondent reports that the amount of electronic contact with their parents or in-laws, or other non-co-residing family members was about the same as before the pandemic. At Round 2, RrCRECONCH is coded as 3 if the respondent reports that the amount of electronic contact with their parents or in-laws, or other non-co-residing family members increased compared to before the pandemic. At Round 1, special missing value (.n) is assigned if the respondent reports that this question is "not relevant" to them. At Round 2, special missing value (.n) is assigned if the respondent reports "doesn't apply to me" to both questions related to relationship with parents or in-laws and relationship with other family members. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCRECONCH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCECONCH indicates how the amount of electronic contact between the respondent's spouse and their non-co-residing children changed during the COVID-19 pandemic compared to before the pandemic. SrCGECONCH indicates how the amount of electronic contact between the respondent's spouse and their non-co-residing grandchildren changed during the COVID-19 pandemic compared to before the pandemic. SrCFECONCH indicates how the amount of electronic contact between the respondent's spouse and their non-co-residing friends changed during the COVID-19 pandemic compared to before the pandemic. SrCNECONCH indicates how the amount of electronic contact between the respondent's spouse and their neighbors changed during the COVID-19 pandemic compared to before the pandemic. SrCRECONCH indicates how the amount of electronic contact between the respondent's spouse and their other non-co-residing family members (not including children or grandchildren) changed during the COVID-19 pandemic compared to before the pandemic. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how the amount of electronic contact with people outside their household changed since the beginning of the pandemic compared to before the pandemic, while Round 2 asks respondents to report how the amount of electronic contact with people outside their household changed during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to before the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, respondents may report that these questions are "not relevant" to them, while at Round 2 respondents may report "doesn't apply to me" to these questions. Despite this difference in wording, we believe these reports to be comparable.

Unlike Round 2, Round 1 does not ask respondents to report how the amount of electronic contact with their parents or in-laws changed since March 2020 compared to before the pandemic.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB056A                     q56a. your children
    RLB056B                     q56b. your grandchildren
    RLB056C                     q56c. other family members
    RLB056D                     q56d. your friends
    RLB056E                     q56e. your neighbors
Round 2 COVID-19 Spring:
    H10A_21S                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH CHIL
    H10B_21S                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH GRAN
    H10C_21S                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH PARE
    H10D_21S                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH OTHE
    H10E_21S                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH FRIE
    H10F_21S                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH NEIG
Round 2 COVID-19 Fall:
    H10A_21F                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH CHIL
    H10B_21F                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH GRAN
    H10C_21F                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH PARE
    H10D_21F                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH OTHE
    H10E_21F                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH FRIE
    H10F_21F                    OTHER CONTACT 3/2020-3/2021 CHANGE-WITH NEIG
```

In-Person Contact Changed Due to Pandemic

Round	Variable	Label	Type
2	R2CCPCONCH	r2ccpconch:r2 COVID: r in-person contact changed - children	Categ
2	S2CCPCONCH	s2ccpconch:r2 COVID: s in-person contact changed - children	Categ
2	R2CGPCONCH	r2cgpconch:r2 COVID: r in-person contact changed - grandchil	Categ
2	S2CGPCONCH	s2cgpconch:r2 COVID: s in-person contact changed - grandchil	Categ
2	R2CFPCONCH	r2cfpconch:r2 COVID: r in-person contact changed - friends	Categ
2	S2CFPCONCH	s2cfpconch:r2 COVID: s in-person contact changed - friends	Categ
2	R2CNPCONCH	r2cnpconch:r2 COVID: r in-person contact changed - neighbors	Categ
2	S2CNPCONCH	s2cnpconch:r2 COVID: s in-person contact changed - neighbors	Categ
2	R2CRPCONCH	r2crpconch:r2 COVID: r in-person contact changed - other fam	Categ
2	S2CRPCONCH	s2crpconch:r2 COVID: s in-person contact changed - other fam	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2CCPCONCH	9770	1.67	0.66	1.00	3.00
S2CCPCONCH	5028	1.61	0.65	1.00	3.00
R2CGPCONCH	8098	1.60	0.64	1.00	3.00
S2CGPCONCH	4072	1.55	0.62	1.00	3.00
R2CFPCONCH	10607	1.40	0.56	1.00	3.00
S2CFPCONCH	5334	1.36	0.54	1.00	3.00
R2CNPCONCH	10192	1.52	0.58	1.00	3.00
S2CNPCONCH	5178	1.48	0.56	1.00	3.00
R2CRPCONCH	9994	1.57	0.61	1.00	3.00
S2CRPCONCH	5090	1.53	0.60	1.00	3.00

Categorical Variable Codes

Value	R2CCPCONCH
.m:Missing	376
.n:Not relevant	1424
1.Decrease	4320
2.About the same	4400
3.Increase	1050

Value	S2CCPCONCH
.m:Missing	117
.n:Not relevant	507
.u:Unmar	3974
.v:SP NR	1137

```
.z:Not in wave 15          |                          807
1.Decrease                 |                         2436
2.About the same           |                         2127
3.Increase                 |                          465

Value----------------------|                    R2CGPCONCH
.m:Missing                 |                          438
.n:Not relevant            |                         3034
1.Decrease                 |                         3941
2.About the same           |                         3494
3.Increase                 |                          663

Value----------------------|                    S2CGPCONCH
.m:Missing                 |                          138
.n:Not relevant            |                         1442
.u:Unmar                   |                         3974
.v:SP NR                   |                         1137
.z:Not in wave 15          |                          807
1.Decrease                 |                         2134
2.About the same           |                         1648
3.Increase                 |                          290

Value----------------------|                    R2CFPCONCH
.m:Missing                 |                          389
.n:Not relevant            |                          574
1.Decrease                 |                         6785
2.About the same           |                         3416
3.Increase                 |                          406

Value----------------------|                    S2CFPCONCH
.m:Missing                 |                          113
.n:Not relevant            |                          205
.u:Unmar                   |                         3974
.v:SP NR                   |                         1137
.z:Not in wave 15          |                          807
1.Decrease                 |                         3586
2.About the same           |                         1588
3.Increase                 |                          160

Value----------------------|                    R2CNPCONCH
.m:Missing                 |                          385
.n:Not relevant            |                          993
1.Decrease                 |                         5344
2.About the same           |                         4418
3.Increase                 |                          430

Value----------------------|                    S2CNPCONCH
.m:Missing                 |                          117
.n:Not relevant            |                          357
.u:Unmar                   |                         3974
.v:SP NR                   |                         1137
.z:Not in wave 15          |                          807
1.Decrease                 |                         2848
2.About the same           |                         2155
3.Increase                 |                          175

Value----------------------|                    R2CRPCONCH
.m:Missing                 |                          454
.n:Not relevant            |                         1122
1.Decrease                 |                         4943
2.About the same           |                         4403
3.Increase                 |                          648

Value----------------------|                    S2CRPCONCH
.m:Missing                 |                          142
.n:Not relevant            |                          420
.u:Unmar                   |                         3974
.v:SP NR                   |                         1137
.z:Not in wave 15          |                          807
1.Decrease                 |                         2667
2.About the same           |                         2137
3.Increase                 |                          286
```

How Constructed:

At Round 2, respondents are asked to report how the amount of in-person contact in their relationships with people outside their household changed during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to before the pandemic. Types of relationships include children, grandchildren, parents or in-laws, other family members, friends, and neighbors. Respondents may report that the amount of in-person contact in their relationships with people outside their household "increased", "decreased", or was "about the same" during the pandemic compared to before the pandemic. Respondents may also report "doesn't apply to me" to these questions.

RrCCPCONCH, RrCGPCONCH, RrCFPCONCH, and RrCNPCONCH indicate how the amount of in-person contact in the respondent's relationships changed during the COVID-19 pandemic compared to before the pandemic. These variables are coded as 1 if the respondent reports that the amount of in-person contact decreased compared to before the pandemic. These variables are coded as 2 if the respondent reports that the amount of in-person contact was about the same as before the pandemic. These variables are coded as 3 if the respondent reports that the amount of in-person contact increased compared to before the pandemic. Special missing value (.n) is assigned if the respondent reports that this question "doesn't apply to me". Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. These variables are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCCPCONCH indicates how the amount of in-person contact between the respondent and their non-co-residing children changed during the COVID-19 pandemic compared to before the pandemic.

RrCGPCONCH indicates how the amount of in-person contact between the respondent and their non-co-residing grandchildren changed during the COVID-19 pandemic compared to before the pandemic.

RrCFPCONCH indicates how the amount of in-person contact between the respondent and their non-co-residing friends changed during the COVID-19 pandemic compared to before the pandemic.

RrCNPCONCH indicates how the amount of in-person contact between the respondent and their neighbors changed during the COVID-19 pandemic compared to before the pandemic.

RrCRPCONCH indicates how the amount of in-person contact between the respondent and their other non-co-residing family members (not including children or grandchildren) changed during the COVID-19 pandemic compared to before the pandemic. RrCRPCONCH is coded as 1 if the respondent reports that the amount of in-person contact with their parents or in-laws, or other non-co-residing family members decreased compared to before the pandemic. RrCRPCONCH is coded as 2 if the respondent reports that the amount of in-person contact with their parents or in-laws, or other non-co-residing family members was about the same as before the pandemic. RrCRPCONCH is coded as 3 if the respondent reports that the amount of in-person contact with their parents or in-laws, or other non-co-residing family members increased compared to before the pandemic. Special missing value (.n) is assigned if the respondent reports "doesn't apply to me" to both questions related to relationship with parents or in-laws and relationship with other family members. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCRPCONCH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCPCONCH indicates how the amount of in-person contact between the respondent's spouse and their non-co-residing children changed during the COVID-19 pandemic compared to before the pandemic. SrCGPCONCH indicates how the amount of in-person contact between the respondent's spouse and their non-co-residing grandchildren changed during the COVID-19 pandemic compared to before the pandemic. SrCFPCONCH indicates how the amount of in-person contact between the respondent's spouse and their non-co-residing friends changed during the COVID-19 pandemic compared to before the pandemic. SrCNPCONCH indicates how the amount of in-person contact between the respondent's spouse and their neighbors changed during the COVID-19 pandemic compared to before the pandemic. SrCRPCONCH indicates how the amount of in-person contact between the respondent's spouse and their other non-co-residing family members (not including children or grandchildren) changed during the COVID-19 pandemic compared to before the pandemic. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Unlike Round 2, Round 1 does not ask respondents to report how the amount of in-person contact in their relationships with people outside their household changed during the first year of the COVID-19 pandemic (from March 2020 to March 2021) compared to before the pandemic. At Round 1, respondents are instead asked to report how the amount of internet-based contact (ex. by phone, email, Facetime, Facebook, Skype, Zoom, or social media) in their relationships with people outside their household changed since the COVID-19 pandemic.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 2 COVID-19 Spring:
    H9A_21S                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9B_21S                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9C_21S                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9D_21S                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9E_21S                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9F_21S                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
Round 2 COVID-19 Fall:
    H9A_21F                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9B_21F                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9C_21F                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9D_21F                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9E_21F                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
    H9F_21F                     IN PERSON CONTACT 3/2020-3/2021 CHANGE-WITH
```

Activity Changed Due to Pandemic

Round	Variable	Label	Type
1	R1CACHLHM	r1cachlhm:r1 COVID: r activity changed - leave home	Categ
2	R2CACHLHM	r2cachlhm:r2 COVID: r activity changed 1st yr pndmc - leave	Categ
1	S1CACHLHM	s1cachlhm:r1 COVID: s activity changed - leave home	Categ
2	S2CACHLHM	s2cachlhm:r2 COVID: s activity changed 1st yr pndmc - leave	Categ
1	R1CACHSHP	r1cachshp:r1 COVID: r activity changed - shopping	Categ
2	R2CACHSHP	r2cachshp:r2 COVID: r activity changed 1st yr pndmc - shoppi	Categ
1	S1CACHSHP	s1cachshp:r1 COVID: s activity changed - shopping	Categ
2	S2CACHSHP	s2cachshp:r2 COVID: s activity changed 1st yr pndmc - shoppi	Categ
1	R1CACHVFAM	r1cachvfam:r1 COVID: r activity changed - visit family	Categ
2	R2CACHVFAM	r2cachvfam:r2 COVID: r activity changed 1st yr pndmc - visit	Categ
1	S1CACHVFAM	s1cachvfam:r1 COVID: s activity changed - visit family	Categ
2	S2CACHVFAM	s2cachvfam:r2 COVID: s activity changed 1st yr pndmc - visit	Categ
1	R1CACHVFRN	r1cachvfrn:r1 COVID: r activity changed - visit friends	Categ
2	R2CACHVFRN	r2cachvfrn:r2 COVID: r activity changed 1st yr pndmc - visit	Categ
1	S1CACHVFRN	s1cachvfrn:r1 COVID: s activity changed - visit friends	Categ
2	S2CACHVFRN	s2cachvfrn:r2 COVID: s activity changed 1st yr pndmc - visit	Categ
1	R1CACHREL	r1cachrel:r1 COVID: r activity changed - religious service	Categ
2	R2CACHREL	r2cachrel:r2 COVID: r activity changed 1st yr pndmc - religi	Categ
1	S1CACHREL	s1cachrel:r1 COVID: s activity changed - religious service	Categ
2	S2CACHREL	s2cachrel:r2 COVID: s activity changed 1st yr pndmc - religi	Categ
1	R1CACHHOB	r1cachhob:r1 COVID: r activity changed - hobby	Categ
2	R2CACHHOB	r2cachhob:r2 COVID: r activity changed 1st yr pndmc - hobby	Categ
1	S1CACHHOB	s1cachhob:r1 COVID: s activity changed - hobby	Categ
2	S2CACHHOB	s2cachhob:r2 COVID: s activity changed 1st yr pndmc - hobby	Categ
1	R1CACHTV	r1cachtv:r1 COVID: r activity changed - television	Categ
2	R2CACHTV	r2cachtv:r2 COVID: r activity changed 1st yr pndmc - televis	Categ
1	S1CACHTV	s1cachtv:r1 COVID: s activity changed - television	Categ
2	S2CACHTV	s2cachtv:r2 COVID: s activity changed 1st yr pndmc - televis	Categ
1	R1CACHVOL	r1cachvol:r1 COVID: r activity changed - volunteer	Categ
2	R2CACHVOL	r2cachvol:r2 COVID: r activity changed 1st yr pndmc - volunt	Categ
1	S1CACHVOL	s1cachvol:r1 COVID: s activity changed - volunteer	Categ
2	S2CACHVOL	s2cachvol:r2 COVID: s activity changed 1st yr pndmc - volunt	Categ
1	R1CACHGRD	r1cachgrd:r1 COVID: r activity changed - garden work	Categ
2	R2CACHGRD	r2cachgrd:r2 COVID: r activity changed 1st yr pndmc - garden	Categ
1	S1CACHGRD	s1cachgrd:r1 COVID: s activity changed - garden work	Categ
2	S2CACHGRD	s2cachgrd:r2 COVID: s activity changed 1st yr pndmc - garden	Categ
1	R1CACHREAD	r1cachread:r1 COVID: r activity changed - read	Categ
2	R2CACHREAD	r2cachread:r2 COVID: r activity changed 1st yr pndmc - read	Categ

1	S1CACHREAD	s1cachread:r1 COVID: s activity changed - read	Categ
2	S2CACHREAD	s2cachread:r2 COVID: s activity changed 1st yr pndmc - read	Categ
1	R1CACHVID	r1cachvid:r1 COVID: r activity changed - video conference	Categ
1	S1CACHVID	s1cachvid:r1 COVID: s activity changed - video conference	Categ
1	R1CACHEXHM	r1cachexhm:r1 COVID: r activity changed - exercise at home	Categ
2	R2CACHEXHM	r2cachexhm:r2 COVID: r activity changed 1st yr pndmc - exerc	Categ
1	S1CACHEXHM	s1cachexhm:r1 COVID: s activity changed - exercise at home	Categ
2	S2CACHEXHM	s2cachexhm:r2 COVID: s activity changed 1st yr pndmc - exerc	Categ
1	R1CACHWALK	r1cachwalk:r1 COVID: r activity changed - walk outside	Categ
2	R2CACHWALK	r2cachwalk:r2 COVID: r activity changed 1st yr pndmc - walk	Categ
1	S1CACHWALK	s1cachwalk:r1 COVID: s activity changed - walk outside	Categ
2	S2CACHWALK	s2cachwalk:r2 COVID: s activity changed 1st yr pndmc - walk	Categ
1	R1CACHEXR	r1cachexr:r1 COVID: r activity changed - physical activity	Categ
2	R2CACHEXR	r2cachexr:r2 COVID: r activity changed 1st yr pndmc - physic	Categ
1	S1CACHEXR	s1cachexr:r1 COVID: s activity changed - physical activity	Categ
2	S2CACHEXR	s2cachexr:r2 COVID: s activity changed 1st yr pndmc - physic	Categ
1	R1CACHSPR	r1cachspr:r1 COVID: r activity changed - spiritual activitie	Categ
2	R2CACHSPR	r2cachspr:r2 COVID: r activity changed 1st yr pndmc - spirit	Categ
1	S1CACHSPR	s1cachspr:r1 COVID: s activity changed - spiritual activitie	Categ
2	S2CACHSPR	s2cachspr:r2 COVID: s activity changed 1st yr pndmc - spirit	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CACHLHM	4435	1.31	0.51	1.00	3.00
R2CACHLHM	11021	1.29	0.52	1.00	3.00
S1CACHLHM	2552	1.29	0.49	1.00	3.00
S2CACHLHM	5498	1.25	0.49	1.00	3.00
R1CACHSHP	4376	1.31	0.50	1.00	3.00
R2CACHSHP	10914	1.30	0.52	1.00	3.00
S1CACHSHP	2524	1.30	0.49	1.00	3.00
S2CACHSHP	5446	1.27	0.49	1.00	3.00
R1CACHVFAM	3858	1.24	0.46	1.00	3.00
R2CACHVFAM	9854	1.25	0.49	1.00	3.00
S1CACHVFAM	2274	1.22	0.45	1.00	3.00
S2CACHVFAM	5053	1.23	0.47	1.00	3.00
R1CACHVFRN	3658	1.19	0.42	1.00	3.00
R2CACHVFRN	9335	1.21	0.45	1.00	3.00
S1CACHVFRN	2148	1.18	0.41	1.00	3.00
S2CACHVFRN	4785	1.19	0.44	1.00	3.00
R1CACHREL	3009	1.27	0.50	1.00	3.00
R2CACHREL	7903	1.26	0.51	1.00	3.00
S1CACHREL	1743	1.25	0.49	1.00	3.00

S2CACHREL	3927	1.24	0.50	1.00	3.00
R1CACHHOB	3492	2.22	0.64	1.00	3.00
R2CACHHOB	9350	2.17	0.66	1.00	3.00
S1CACHHOB	2014	2.22	0.64	1.00	3.00
S2CACHHOB	4679	2.20	0.65	1.00	3.00
R1CACHTV	4315	2.49	0.56	1.00	3.00
R2CACHTV	10799	2.53	0.57	1.00	3.00
S1CACHTV	2503	2.49	0.56	1.00	3.00
S2CACHTV	5358	2.55	0.55	1.00	3.00
R1CACHVOL	1999	1.52	0.61	1.00	3.00
R2CACHVOL	5759	1.49	0.58	1.00	3.00
S1CACHVOL	1243	1.54	0.60	1.00	3.00
S2CACHVOL	3024	1.51	0.57	1.00	3.00
R1CACHGRD	3408	2.18	0.62	1.00	3.00
R2CACHGRD	8670	2.19	0.65	1.00	3.00
S1CACHGRD	2125	2.23	0.59	1.00	3.00
S2CACHGRD	4687	2.23	0.62	1.00	3.00
R1CACHREAD	3905	2.29	0.59	1.00	3.00
R2CACHREAD	10074	2.33	0.60	1.00	3.00
S1CACHREAD	2258	2.28	0.58	1.00	3.00
S2CACHREAD	5041	2.35	0.59	1.00	3.00
R1CACHVID	2102	2.46	0.73	1.00	3.00
S1CACHVID	1284	2.49	0.71	1.00	3.00
R1CACHEXHM	3810	2.22	0.63	1.00	3.00
R2CACHEXHM	9702	2.10	0.68	1.00	3.00
S1CACHEXHM	2203	2.23	0.63	1.00	3.00
S2CACHEXHM	4866	2.12	0.67	1.00	3.00
R1CACHWALK	3728	1.99	0.71	1.00	3.00
R2CACHWALK	10411	1.93	0.73	1.00	3.00
S1CACHWALK	2174	2.04	0.71	1.00	3.00
S2CACHWALK	5160	2.00	0.73	1.00	3.00
R1CACHEXR	4114	2.29	0.63	1.00	3.00
R2CACHEXR	11003	2.24	0.66	1.00	3.00
S1CACHEXR	2377	2.30	0.62	1.00	3.00
S2CACHEXR	5429	2.28	0.65	1.00	3.00
R1CACHSPR	3948	2.40	0.59	1.00	3.00
R2CACHSPR	9498	2.35	0.66	1.00	3.00
S1CACHSPR	2243	2.38	0.58	1.00	3.00
S2CACHSPR	4634	2.34	0.65	1.00	3.00

Categorical Variable Codes

Value	R1CACHLHM	R2CACHLHM
.m:Missing	101	287
.n:Not relevant	134	262
.s:Not in self-completion q	5682	
1.Less often	3159	8244
2.About the same	1175	2409
3.More often	101	368

Value	S1CACHLHM	S2CACHLHM
.m:Missing	54	77
.n:Not relevant	60	77
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	1850	4261
2.About the same	660	1089
3.More often	42	148

Value	R1CACHSHP	R2CACHSHP
.m:Missing	116	300
.n:Not relevant	178	356
.s:Not in self-completion q	5682	
1.Less often	3107	7994
2.About the same	1190	2606
3.More often	79	314

Value	S1CACHSHP	S2CACHSHP
.m:Missing	60	90
.n:Not relevant	82	116
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	1814	4103
2.About the same	668	1226
3.More often	42	117

Value	R1CACHVFAM	R2CACHVFAM
.m:Missing	126	327
.n:Not relevant	686	1389
.s:Not in self-completion q	5682	
1.Less often	2982	7615
2.About the same	815	1976
3.More often	61	263

Value	S1CACHVFAM	S2CACHVFAM
.m:Missing	62	106
.n:Not relevant	330	493
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	1798	4018
2.About the same	444	913
3.More often	32	122

Value	R1CACHVFRN	R2CACHVFRN
.m:Missing	150	357
.n:Not relevant	862	1878
.s:Not in self-completion q	5682	
1.Less often	2995	7580
2.About the same	619	1568
3.More often	44	187

Value	S1CACHVFRN	S2CACHVFRN
.m:Missing	74	109
.n:Not relevant	444	758
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	1779	3962
2.About the same	347	735
3.More often	22	88

Value	R1CACHREL	R2CACHREL
.m:Missing	154	385
.n:Not relevant	1507	3282
.s:Not in self-completion q	5682	
1.Less often	2289	6119
2.About the same	638	1515
3.More often	82	269

Value	S1CACHREL	S2CACHREL
.m:Missing	79	129
.n:Not relevant	844	1596
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	1339	3092
2.About the same	364	713
3.More often	40	122

Value	R1CACHHOB	R2CACHHOB
.m:Missing	129	487
.n:Not relevant	1049	1733
.s:Not in self-completion q	5682	
1.Less often	425	1397
2.About the same	1875	4992
3.More often	1192	2961

Value	S1CACHHOB	S2CACHHOB
.m:Missing	61	179
.n:Not relevant	591	794
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	238	594
2.About the same	1088	2538
3.More often	688	1547

Value	R1CACHTV	R2CACHTV
.m:Missing	142	423
.n:Not relevant	213	348
.s:Not in self-completion q	5682	
1.Less often	144	402
2.About the same	1897	4243
3.More often	2274	6154

Value	S1CACHTV	S2CACHTV
.m:Missing	66	155
.n:Not relevant	97	139
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	83	161
2.About the same	1121	2098
3.More often	1299	3099

Value	R1CACHVOL	R2CACHVOL
.m:Missing	158	475
.n:Not relevant	2513	5336
.s:Not in self-completion q	5682	
1.Less often	1079	3188
2.About the same	802	2319
3.More often	118	252

Value	S1CACHVOL	S2CACHVOL
.m:Missing	80	171
.n:Not relevant	1343	2457
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	643	1609
2.About the same	528	1294
3.More often	72	121

Value	R1CACHGRD	R2CACHGRD
.m:Missing	154	403
.n:Not relevant	1108	2497
.s:Not in self-completion q	5682	
1.Less often	394	1151
2.About the same	2001	4749
3.More often	1013	2770

Value	S1CACHGRD	S2CACHGRD
.m:Missing	68	132
.n:Not relevant	473	833
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	187	474
2.About the same	1262	2661
3.More often	676	1552

Value	R1CACHREAD	R2CACHREAD
.m:Missing	122	396
.n:Not relevant	643	1100
.s:Not in self-completion q	5682	
1.Less often	273	719
2.About the same	2215	5266
3.More often	1417	4089

Value	S1CACHREAD	S2CACHREAD
.m:Missing	64	141
.n:Not relevant	344	470
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	150	294
2.About the same	1325	2698
3.More often	783	2049

Value	R1CACHVID
.m:Missing	127
.n:Not relevant	2441
.s:Not in self-completion q	5682
1.Less often	300
2.About the same	544
3.More often	1258

Value	S1CACHVID
.m:Missing	63
.n:Not relevant	1319
.s:Not in self-completion q	2248
.u:Unmar	4277
.v:SP NR	1161
1.Less often	160
2.About the same	335
3.More often	789

Value	R1CACHEXHM	R2CACHEXHM
.m:Missing	107	315
.n:Not relevant	753	1553
.s:Not in self-completion q	5682	
1.Less often	424	1809
2.About the same	2117	5103
3.More often	1269	2790

Value	S1CACHEXHM	S2CACHEXHM
.m:Missing	53	94
.n:Not relevant	410	692
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	236	823
2.About the same	1218	2640
3.More often	749	1403

Value	R1CACHWALK	R2CACHWALK

.m:Missing	107	348
.n:Not relevant	835	811
.s:Not in self-completion q	5682	
1.Less often	962	3154
2.About the same	1825	4816
3.More often	941	2441

Value	S1CACHWALK	S2CACHWALK
.m:Missing	55	133
.n:Not relevant	437	359
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	499	1357
2.About the same	1089	2445
3.More often	586	1358

Value	R1CACHEXR	R2CACHEXR
.m:Missing	88	171
.n:Not relevant	468	396
.s:Not in self-completion q	5682	
1.Less often	384	1416
2.About the same	2155	5511
3.More often	1575	4076

Value	S1CACHEXR	S2CACHEXR
.m:Missing	45	47
.n:Not relevant	244	176
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	212	598
2.About the same	1238	2730
3.More often	927	2101

Value	R1CACHSPR	R2CACHSPR
.m:Missing	94	339
.n:Not relevant	628	1733
.s:Not in self-completion q	5682	
1.Less often	208	966
2.About the same	1957	4224
3.More often	1783	4308

Value	S1CACHSPR	S2CACHSPR
.m:Missing	48	109
.n:Not relevant	375	909
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	118	448
2.About the same	1158	2177
3.More often	967	2009

How Constructed:

At Rounds 1 and 2, respondents are asked to report how often they did different activities during the COVID-19 pandemic compared to before the pandemic. Activities include left home; went shopping; traveled to visit family members; traveled to visit friends; attended religious services outside their home; prayed or did other spiritual activities at home; exercised at home; walked outside their home for more than 20 minutes; did hobbies, crafts or puzzles; watched TV, Netflix, stream movies, or shows; volunteered; did garden work or home repairs; read books, magazines, or newspapers (in print or digitally); meditated. At Round 1, respondents are also asked to report how often they met with social groups on Zoom or other online video conference sites during the COVID-19 pandemic compared to before the pandemic. At Round 2, respondents are also asked to report how often they exercised in a recreational facility (e.g. gym, studio, pool) during the COVID-19 pandemic compared to before the pandemic. At Round 2, respondents are asked one question regarding how often they prayed, meditated, or did other spiritual activities at home, while at Round 1 prayer and spiritual activities are separated from meditation. At Rounds 1 and 2, respondents may report that they did an activity "more often", "less often", or "about the same" amount during the pandemic compared to before the pandemic. At Round 1, respondents may also

report that the question is "not relevant" to them. At Round 2, respondents may also report that they "did not do before March 2020 and do not do now". It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how often they did different activities since the beginning of the pandemic compared to before the pandemic, while Round 2 asks respondents to report how often they did different activities during the first year of the pandemic (from March 2020 to March 2021) compared to before the pandemic. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCACHLHM, RrCACHSHP, RrCACHVFAM, RrCACHVFRN, RrCACHREL, RrCACHHOB, RrCACHTV, RrCACHVOL, RrCACHGRD, RrCACHREAD, RrCACHVID, and RrCACHWALK indicate how often the respondent has performed the activity during the COVID-19 pandemic compared to before the pandemic. These variables are coded as 1 if the respondent reports that they performed the activity less often compared to before the pandemic. These variables are coded as 2 if the respondent reports that they performed the activity about the same amount as before the pandemic. These variables are coded as 3 if the respondent reports that they performed the activity more often compared to before the pandemic. At Round 1, special missing value (.n) is assigned if the respondent reports that this question is "not relevant" to them. At Round 2, special missing value (.n) is assigned if the respondent reports that they "did not do before March 2020 and do not do now". At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. These variables are coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCACHLHM indicates how often the respondent left their home during the COVID-19 pandemic compared to before the pandemic.

RrCACHSHP indicates how often the respondent has gone shopping during the COVID-19 pandemic compared to before the pandemic.

RrCACHVFAM indicates how often the respondent has traveled to visit family members during the COVID-19 pandemic compared to before the pandemic.

RrCACHVFRN indicates how often the respondent has traveled to visit friends during the COVID-19 pandemic compared to before the pandemic.

RrCACHREL indicates how often the respondent has attended religious services outside their home during the COVID-19 pandemic compared to before the pandemic.

RrCACHHOB indicates how often the respondent has done hobbies, crafts, or puzzles during the COVID-19 pandemic compared to before the pandemic.

RrCACHTV indicates how often the respondent has watched television during the COVID-19 pandemic compared to before the pandemic. RrCACHTV includes watched TV, Netflix, streamed movies, or shows.

RrCACHVOL indicates how often the respondent has volunteered during the COVID-19 pandemic compared to before the pandemic.

RrCACHGRD indicates how often the respondent has done garden work or home repairs during the COVID-19 pandemic compared to before the pandemic.

RrCACHREAD indicates how often the respondent has read books, magazines, or newspapers (in print or digitally) during the COVID-19 pandemic compared to before the pandemic.

RrCACHVID indicates how often the respondent has met with social groups via video conference compared to before the COVID-19 pandemic. RrCACHVID is only available at Round 1.

RrCACHEXHM indicates how often the respondent has exercised at home during the COVID-19 pandemic compared to before the pandemic. At Round 1, the respondent is asked this same question twice and RrCACHEXHM takes into account both responses.

RrCACHWALK indicates how often the respondent has walked outside their home for more than 20 minutes during the COVID-19 pandemic compared to before the pandemic.

RrCACHEXR indicates how often the respondent has been physically active during the COVID-19 pandemic compared to before the pandemic. RrCACHEXR takes into account responses for RrCACHEXHM and RrCACHWALK. At Round 2, RrCACHEXR also takes into account responses to how often the respondent exercised in a recreational facility (ex. gym, studio, pool) during the COVID-19 pandemic compared to before the pandemic. At Round 1, RrCACHEXR is coded as 1 if the respondent reports that they exercised at home or walked outside their home for more than 20 minutes less often compared to before the pandemic. At Round 1, RrCACHEXR is coded as 2 if the respondent reports that they exercised at home or walked outside their home for more than 20 minutes about the same amount as before the pandemic. At Round 1, RrCACHEXR is coded as 3 if the respondent reports that they exercised at home or walked outside their home for more than 20 minutes more often compared to before the pandemic. At Round 2, RrCACHEXR is coded as 1 if the respondent reports that they exercised at home, exercised in a recreational facility, or walked outside their home for more than 20 minutes less often compared to before the pandemic. At Round 2, RrCACHEXR is coded as 2 if the respondent reports that they exercised at home, exercised in a recreational facility, or walked outside their home for more than 20 minutes about the same amount as before the pandemic. At Round 2, RrCACHEXR is coded as 3 if the respondent reports that they exercised at home, exercised in a recreational facility, or walked outside their home for more than 20 minutes more often compared to before the pandemic. At both rounds, responses of doing an activity more are prioritized, followed by the same amount, and then less. At Round 1, special missing value (.n) is assigned if the respondent reports "not relevant" to having exercised at home and having walked outside their home for more than 20 minutes. At Round 2, special missing value (.n) is assigned if the respondent reports that they "did not do before March 2020 and do not do now" to having exercised at home, having exercised in a recreational facility, and having walked outside their home for more than 20 minutes. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire of the current COVID round. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCACHEXR is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCACHSPR indicates how often the respondent has prayed, meditated or done other spiritual activities at home during the COVID-19 pandemic compared to before the pandemic. At Round 1, RrCACHSPR is coded as 1 if the respondent reports that they prayed/did other spiritual activities at home or meditated less often compared to before the pandemic. At Round 1, RrCACHSPR is coded as 2 if the respondent reports that they prayed/did other spiritual activities at home or meditated about the same amount as before the pandemic. At Round 1, RrCACHSPR is coded as 3 if the respondent reports that they prayed/did other spiritual activities at home or meditated more often compared to before the pandemic. At Round 2, RrCACHSPR is coded as 1 if the respondent reports that they prayed, meditated or did other spiritual activities at home less often compared to before the pandemic. At Round 2, RrCACHSPR is coded as 2 if the respondent reports that they prayed, meditated or did other spiritual activities at home about the same amount as before the pandemic. At Round 2, RrCACHSPR is coded as 3 if the respondent reports that they prayed, meditated or did other spiritual activities at home more often compared to before the pandemic. At Round 1, responses of doing an activity more are prioritized, followed by the same amount, and then less. At Round 1, special missing value (.n) is assigned if the respondent reports that this question is "not relevant" to them. At Round 2, special missing value (.n) is assigned if the respondent reports that they "did not do before March 2020 and do not do now". At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire of the current COVID round. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCACHSPR is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCACHLHM indicates how often the respondent's spouse has left their home during the COVID-19 pandemic compared to before the pandemic. SrCACHSHP indicates how often the respondent's spouse has gone shopping during the COVID-19 pandemic compared to before the pandemic. SrCACHVFAM indicates how often the respondent's spouse has traveled to visit family members during the COVID-19 pandemic compared to before the pandemic. SrCACHVFRN indicates how often the respondent's spouse has traveled to visit friends during the COVID-19 pandemic compared to before the pandemic. SrCACHREL indicates how often the respondent's spouse has attended religious services outside their home during the COVID-19 pandemic compared to before the pandemic. SrCACHHOB indicates how often the respondent's spouse has done hobbies, crafts, or puzzles during the COVID-19 pandemic compared to before the pandemic. SrCACHTV indicates how often the respondent's spouse has watched television during the COVID-19 pandemic compared to before the pandemic. SrCACHVOL indicates how often the respondent's spouse has volunteered during the COVID-19 pandemic compared to before the pandemic. SrCACHGRD indicates how often the respondent's spouse has done garden work or home repairs during the COVID-19 pandemic compared to before the pandemic. SrCACHREAD indicates how often the respondent's spouse has read books, magazines, or newspapers during the COVID-19 pandemic compared to before the pandemic. SrCACHVID indicates how often the respondent's spouse has met with

social groups via video conference during the COVID-19 pandemic compared to before the pandemic. SrCACHEXHM indicates how often the respondent's spouse has exercised at home during the COVID-19 pandemic compared to before the pandemic. SrCACHWALK indicates how often the respondent's spouse has walked outside their home for more than 20 minutes during the COVID-19 pandemic compared to before the pandemic. SrCACHEXR indicates how often the respondent's spouse has been physically active during the COVID-19 pandemic compared to before the pandemic. SrCACHSPR indicates how often the respondent's spouse has prayed, meditated or done other spiritual activities at home during the COVID-19 pandemic compared to before the pandemic. The spouse variables are taken from the spouse's values to the respondent variables. In addition to the special missing values used in the respondent variables, the spouse variables employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

It is important to note the difference in how these questions are asked across rounds. At Round 1, respondents are asked to report how often they did different activities since the beginning of the pandemic compared to before the pandemic, while Round 2 asks respondents to report how often they did different activities during the first year of the pandemic (from March 2020 to March 2021) compared to the months before March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

At Round 1, respondents may report that these questions are "not relevant" to them, while at Round 2 respondents may report that they "did not do before March 2020 and do not do now". Despite this difference in wording, we believe these reports to be comparable.

Unlike Round 1, Round 2 does not ask respondents to report how often they met with social groups on Zoom or other online video conference sites during the COVID-19 pandemic compared to before the pandemic.

Unlike Round 2, Round 1 does not ask respondents to report how often they exercised in a recreational facility (for example, gym, studio, pool) during the COVID-19 pandemic compared to before the pandemic.

At Round 1, respondents are asked separately to report how often they prayed or did other spiritual activities at home and how often they meditated during the COVID-19 pandemic compared to before the pandemic. At Round 2, respondents are asked one question regarding how often they prayed, meditated, or did other spiritual activities at home during the COVID-19 pandemic compared to before the pandemic.

Comparability with the RAND HRS/Harmonized HRS

No comparable variables are available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

Round 1 COVID-19:

RLB069A	q69a. leave your home
RLB069B	q69b. go shopping
RLB069C	q69c. travel to visit family members
RLB069D	q69d. travel to visit friends
RLB069E	q69e. attend religious services outside
RLB069F	q69f. pray or do other spiritual activities
RLB069G	q69g. exercise at home
RLB069H	q69h. walk outside your home for 20 minutes
RLB069I	q69i. do hobbies or crafts
RLB069J	q69j. watch tv or netflix
RLB069K	q69k. volunteer
RLB069M	q69m. exercise at home
RLB069N	q69n. do garden work or home repairs
RLB069O	q69o. read books or magazines
RLB069P	q69p. meditate
RLB069Q	q69q. meet with social groups on zoom

```
Round 2 COVID-19 Spring:
    H15A_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-LEFT HOME
    H15B_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-WENT SHOPP
    H15C_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-TRAVEL TO
    H15D_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-TRAVEL TO
    H15E_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-ATTENDED R
    H15F_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-PRAYED/MED
    H15G_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-EXERCISED
    H15H_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-WALKED OUT
    H15I_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-DID HOBBIE
    H15J_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-WATCHED TV
    H15K_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-VOLUNTEERE
    H15L_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-GARDEN WOR
    H15M_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-READ BOOKS
    H15Q_21S                    CHANGE 3/2020-3/2021 IN HOW OFTEN-EXERCISED
Round 2 COVID-19 Fall:
    H15A_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-LEFT HOME
    H15B_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-WENT SHOPP
    H15C_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-TRAVEL TO
    H15D_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-TRAVEL TO
    H15E_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-ATTENDED R
    H15F_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-PRAYED/MED
    H15G_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-EXERCISED
    H15H_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-WALKED OUT
    H15I_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-DID HOBBIE
    H15J_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-WATCHED TV
    H15K_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-VOLUNTEERE
    H15L_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-GARDEN WOR
    H15M_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-READ BOOKS
    H15Q_21F                    CHANGE 3/2020-3/2021 IN HOW OFTEN-EXERCISED
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Section J: Psychosocial

Loneliness

Round	Variable	Label	Type
1	R1CCOMPLAC	r1ccomplac:r1 COVID: how often r feels lack of companionship	Categ
1	S1CCOMPLAC	s1ccomplac:r1 COVID: how often s feels lack of companionship	Categ
1	R1CLEFTOUT	r1cleftout:r1 COVID: how often r feels left out	Categ
1	S1CLEFTOUT	s1cleftout:r1 COVID: how often s feels left out	Categ
1	R1CISOLATE	r1cisolate:r1 COVID: how often r feels isolated from others	Categ
1	S1CISOLATE	s1cisolate:r1 COVID: how often s feels isolated from others	Categ
1	R1CINTUNE	r1cintune:r1 COVID: how often r feels in tune with others	Categ
1	S1CINTUNE	s1cintune:r1 COVID: how often s feels in tune with others	Categ
1	R1CLONELY	r1clonely:r1 COVID: how often r feels lonely during pandemic	Categ
1	S1CLONELY	s1clonely:r1 COVID: how often s feels lonely during pandemic	Categ
1	R1CLNLYS	r1clnlys:r1 COVID: r's 4-item loneliness summary mean score	Cont
1	S1CLNLYS	s1clnlys:r1 COVID: s's 4-item loneliness summary mean score	Cont
1	R1CLNLYSM	r1clnlysm:r1 COVID: missings in r's 4-item loneliness summar	Cont
1	S1CLNLYSM	s1clnlysm:r1 COVID: missings in s's 4-item loneliness summar	Cont
1	R1CLNLYS3	r1clnlys3:r1 COVID: r's 3-item loneliness summary mean score	Cont
1	S1CLNLYS3	s1clnlys3:r1 COVID: s's 3-item loneliness summary mean score	Cont
1	R1CLNLYS3M	r1clnlys3m:r1 COVID: missings in r's 3-item loneliness summa	Cont
1	S1CLNLYS3M	s1clnlys3m:r1 COVID: missings in s's 3-item loneliness summa	Cont
1	R1CFLONECH	r1cflonech:r1 COVID: r lonely compared to before pandemic	Categ
1	S1CFLONECH	s1cflonech:r1 COVID: s lonely compared to before pandemic	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CCOMPLAC	4597	1.55	0.70	1.00	3.00
S1CCOMPLAC	2637	1.36	0.59	1.00	3.00
R1CLEFTOUT	4599	1.48	0.62	1.00	3.00
S1CLEFTOUT	2638	1.41	0.58	1.00	3.00
R1CISOLATE	4580	1.50	0.65	1.00	3.00
S1CISOLATE	2623	1.43	0.62	1.00	3.00
R1CINTUNE	4576	1.69	0.67	1.00	3.00

S1CINTUNE	2627	1.68	0.67	1.00	3.00
R1CLONELY	4595	1.55	0.65	1.00	3.00
S1CLONELY	2636	1.45	0.60	1.00	3.00
R1CLNLYS	4617	1.55	0.48	1.00	3.00
S1CLNLYS	2644	1.47	0.44	1.00	3.00
R1CLNLYSM	4670	0.07	0.46	0.00	4.00
S1CLNLYSM	2666	0.05	0.40	0.00	4.00
R1CLNLYS3	4617	1.51	0.55	1.00	3.00
S1CLNLYS3	2644	1.40	0.50	1.00	3.00
R1CLNLYS3M	4670	0.05	0.34	0.00	3.00
S1CLNLYS3M	2666	0.04	0.30	0.00	3.00
R1CFLONECH	4533	2.21	0.53	1.00	3.00
S1CFLONECH	2602	2.18	0.52	1.00	3.00

Categorical Variable Codes

```
Value----------------------|     R1CCOMPLAC
.m:Missing                 |             73
.s:Not in self-completion q|           5682
1.Hardly ever or never     |           2602
2.Some of the time         |           1440
3.Often                    |            555

Value----------------------|     S1CCOMPLAC
.m:Missing                 |             29
.s:Not in self-completion q|           2248
.u:Unmar                   |           4277
.v:SP NR                   |           1161
1.Hardly ever or never     |           1833
2.Some of the time         |            649
3.Often                    |            155

Value----------------------|     R1CLEFTOUT
.m:Missing                 |             71
.s:Not in self-completion q|           5682
1.Hardly ever or never     |           2715
2.Some of the time         |           1576
3.Often                    |            308

Value----------------------|     S1CLEFTOUT
.m:Missing                 |             28
.s:Not in self-completion q|           2248
.u:Unmar                   |           4277
.v:SP NR                   |           1161
1.Hardly ever or never     |           1693
2.Some of the time         |            815
3.Often                    |            130

Value----------------------|     R1CISOLATE
.m:Missing                 |             90
.s:Not in self-completion q|           5682
1.Hardly ever or never     |           2687
2.Some of the time         |           1503
3.Often                    |            390

Value----------------------|     S1CISOLATE
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.m:Missing                 |            43
.s:Not in self-completion q|          2248
.u:Unmar                   |          4277
.v:SP NR                   |          1161
1.Hardly ever or never     |          1662
2.Some of the time         |           782
3.Often                    |           179

Value----------------------|      R1CINTUNE
.m:Missing                 |            94
.s:Not in self-completion q|          5682
1.Often                    |          1972
2.Some of the time         |          2065
3.Hardly ever or never     |           539

Value----------------------|      S1CINTUNE
.m:Missing                 |            39
.s:Not in self-completion q|          2248
.u:Unmar                   |          4277
.v:SP NR                   |          1161
1.Often                    |          1142
2.Some of the time         |          1180
3.Hardly ever or never     |           305

Value----------------------|      R1CLONELY
.m:Missing                 |            75
.s:Not in self-completion q|          5682
1.Hardly ever or never     |          2481
2.Some of the time         |          1703
3.Often                    |           411

Value----------------------|      S1CLONELY
.m:Missing                 |            30
.s:Not in self-completion q|          2248
.u:Unmar                   |          4277
.v:SP NR                   |          1161
1.Hardly ever or never     |          1606
2.Some of the time         |           879
3.Often                    |           151

Value----------------------|     R1CFLONECH
.m:Missing                 |           137
.s:Not in self-completion q|          5682
1.Less so                  |           278
2.About the same           |          3046
3.More so                  |          1209

Value----------------------|     S1CFLONECH
.m:Missing                 |            64
.s:Not in self-completion q|          2248
.u:Unmar                   |          4277
.v:SP NR                   |          1161
1.Less so                  |           163
2.About the same           |          1804
3.More so                  |           635
```

How Constructed:

RrCCOMPLAC indicates how often the respondent feels they lack companionship. This question is only asked at Round 1. The respondent is asked whether they feel they lack companionship "hardly ever or never", "some of the time", or "often". RrCCOMPLAC is coded as 1 if the respondent reports that they hardly ever or never feel they lack companionship. RrCCOMPLAC is coded as 2 if the respondent reports that they feel they lack companionship some of the time. RrCCOMPLAC is coded as 3 if the respondent reports that they often feel they lack companionship. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCCOMPLAC is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCLEFTOUT indicates how often the respondent feels left out. This question is only asked at Round 1. The respondent is asked whether they feel left out "hardly ever or never", "some of the time", or "often". RrCLEFTOUT is coded as 1 if the respondent reports that they hardly ever or never feel left out. RrCLEFTOUT is coded as 2 if the respondent reports that they feel left out some of the time. RrCLEFTOUT

is coded as 3 if the respondent reports that they often feel left out. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCLEFTOUT is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCISOLATE indicates how often the respondent feels isolated from others. This question is only asked at Round 1. The respondent is asked whether they feel isolated from others "hardly ever or never", "some of the time", or "often". RrCISOLATE is coded as 1 if the respondent reports that they hardly ever or never feel isolated from others. RrCISOLATE is coded as 2 if the respondent reports that they feel isolated from others some of the time. RrCISOLATE is coded as 3 if the respondent reports that they often feel isolated from others. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCISOLATE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCINTUNE indicates how often the respondent feels in tune with the people around them. This question is only asked at Round 1. The respondent is asked whether they feel in tune with the people around them "hardly ever or never", "some of the time", or "often". RrCINTUNE is coded as 1 if the respondent reports that they often feel in tune with the people around them. RrCINTUNE is coded as 2 if the respondent reports that they feel in tune with the people around them some of the time. RrCINTUNE is coded as 3 if the respondent reports that they hardly ever or never feel in tune with the people around them. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCINTUNE is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCLONELY indicates how often the respondent felt lonely during the COVID-19 pandemic. This question is only asked at Round 1. The respondent is asked whether they have felt lonely "hardly ever or never", "sometimes", or "often" during the pandemic. RrCLONELY is coded as 1 if the respondent reports that they have hardly ever or never felt lonely during the pandemic. RrCLONELY is coded as 2 if the respondent reports that they have sometimes felt lonely during the pandemic. RrCLONELY is coded as 3 if the respondent reports that they have often felt lonely during the pandemic. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCLONELY is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCCOMPLAC indicates how often the respondent's spouse feels they lack companionship. SrCLEFTOUT indicates how often the respondent's spouse feels left out. SrCISOLATE indicates how often the respondent's spouse feels isolated from others. SrCINTUNE indicates how often the respondent's spouse feels in tune with the people around them. SrCLONELY indicates how often the respondent's spouse felt lonely during the COVID-19 pandemic. SrCCOMPLAC, SrCLEFTOUT, SrCISOLATE, SrCINTUNE, and SrCLONELY are taken from the spouse's values to RrCCOMPLAC, RrCLEFTOUT, RrCISOLATE, RrCINTUNE, and RrCLONELY, respectively. In addition to the special missing values used in RrCCOMPLAC, RrCLEFTOUT, RrCISOLATE, RrCINTUNE, and RrCLONELY, SrCCOMPLAC, SrCLEFTOUT, SrCISOLATE, SrCINTUNE, and SrCLONELY employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

RrCLNLYS indicates the mean of four different loneliness questions (RrCCOMPLAC, RrCLEFTOUT, RrCISOLATE, and RrCINTUNE) and can be used as a summary score. RrCLNLYS is only available at Round 1. RrCLNLYS is coded so that higher scores indicate that the respondent feels more lonely. RrCLNLYS is calculated for any respondent with at least one non-missing value for its three components. For RrCLNLYS, don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCLNLYSM counts the number of components with missing values in RrCLNLYS, which could be between no missing components (0) and four missing components (4). RrCLNLYS and RrCLNLYSM are assigned special missing value (.s) if the respondent did not participate in the Round 1 self-completion questionnaire. RrCLNLYS and RrCLNLYSM are assigned plain missing (.) if the respondent did not participate in the current COVID round.

SrCLNLYS indicates the mean of four different loneliness questions (SrCCOMPLAC, SrCLEFTOUT, SrCISOLATE, and SrCINTUNE) and can be used as a summary score. SrCLNLYSM counts the number of components with missing values in SrCLNLYS, which could be between no missing components (0) and four missing components (4). SrCLNLYS and SrCLNLYSM are taken from the spouse's values to RrCLNLYS and RrCLNLYSM, respectively. In

addition to the special missing values used in RrCLNLYS and RrCLNLYSM, SrCLNLYS and SrCLNLYSM employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

RrCLNLYS3 indicates the mean of three different loneliness questions (RrCCOMPLAC, RrCLEFTOUT, and RrCISOLATE) and can be used as a summary score. RrCLNLYS3 is only available at Round 1. RrCLNLYS3 is coded so that higher scores indicate that the respondent feels more lonely. RrCLNLYS3 is calculated for any respondent with at least one non-missing value for its three components. For RrCLNLYS3, don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCLNLYS3M counts the number of components with missing values in RrCLNLYS3, which could be between no missing components (0) and three missing components (3). RrCLNLYS3 and RrCLNLYS3M are assigned special missing value (.s) if the respondent did not participate in the Round 1 self-completion questionnaire. RrCLNLYS3 and RrCLNLYS3M are assigned plain missing (.) if the respondent did not participate in the current COVID round.

SrCLNLYS3 indicates the mean of three different loneliness questions (SrCCOMPLAC, SrCLEFTOUT, and SrCISOLATE) and can be used as a summary score. SrCLNLYS3M counts the number of components with missing values in SrCLNLYS3, which could be between no missing components (0) and three missing components (3). SrCLNLYS3 and SrCLNLYS3M are taken from the spouse's values to RrCLNLYS3 and RrCLNLYS3M, respectively. In addition to the special missing values used in RrCLNLYS3 and RrCLNLYS3M, SrCLNLYS3 and SrCLNLYS3M employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

RrCFLONECH indicates how often the respondent felt lonely compared to before the COVID-19 pandemic. This question is only asked at Round 1. The respondent is asked whether they felt lonely "more so", "about the same", or "less so" than before the pandemic. RrCFLONECH is coded as 1 if the respondent reports that they have felt lonely less often than before the pandemic. RrCFLONECH is coded as 2 if the respondent reports that they have felt lonely about the same about as before the pandemic. RrCFLONECH is coded as 3 if the respondent reports that they have felt lonely more often than before the pandemic. Special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCFLONECH is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCFLONECH indicates how often the respondent's spouse felt lonely compared to before the COVID-19 pandemic. SrCFLONECH is taken from the spouse's value to RrCFLONECH. In addition to the special missing values used in RrCFLONECH, SrCFLONECH employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask questions related to loneliness.

Comparability with the RAND HRS/Harmonized HRS

RrCCOMPLAC: This variable is comparable to RwCOMPLAC in the Harmonized HRS.

RrCLEFTOUT: This variable is comparable to RwLEFTOUT in the Harmonized HRS.

RrCISOLATE: This variable is comparable to RwISOLATE in the Harmonized HRS.

RrCINTUNE: This variable is comparable to RwINTUNE in the Harmonized HRS.

RrCLNLYS: This variable is comparable to RwLNLYS in the Harmonized HRS.

RrCLNLYSM: This variable is comparable to RwLNLYSM in the Harmonized HRS.

RrCLNLYS3: This variable is comparable to RwLNLYS3 in the Harmonized HRS.

RrCLNLYS3M: This variable is comparable to RwLNLYS3M in the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB019A                     q19a. lack companionship
    RLB019B                     q19b. feel left out
    RLB019C                     q19c. feel isolated from others
    RLB019D                     q19d. in tune with others
    RLB064                      q64. felt lonely
    RLB064A                     q64a. about the same
```

CIDI Major Depressive Episode

Round	Variable	Label	Type
2	R2CCIDIDEP	r2ccididep:r2 COVID: r CIDI depression stem symptom score (0	Cont
2	S2CCIDIDEP	s2ccididep:r2 COVID: s CIDI depression stem symptom score (0	Cont
2	R2CCIDIDEPM	r2ccididepm:r2 COVID: r CIDI depression stem symptom missing	Cont
2	S2CCIDIDEPM	s2ccididepm:r2 COVID: s CIDI depression stem symptom missing	Cont
2	R2CCIDIANH	r2ccidianh:r2 COVID: r CIDI anhedonia stem symptom score (0-	Cont
2	S2CCIDIANH	s2ccidianh:r2 COVID: s CIDI anhedonia stem symptom score (0-	Cont
2	R2CCIDIANHM	r2ccidianhm:r2 COVID: r CIDI anhedonia stem symptom missings	Cont
2	S2CCIDIANHM	s2ccidianhm:r2 COVID: s CIDI anhedonia stem symptom missings	Cont
2	R2CCIDISYMP	r2ccidisymp:r2 COVID: r CIDI total symptom score	Cont
2	S2CCIDISYMP	s2ccidisymp:r2 COVID: s CIDI total symptom score	Cont
2	R2CCIDISYMPM	r2ccidisympm:r2 COVID: r CIDI total symptom missings	Cont
2	S2CCIDISYMPM	s2ccidisympm:r2 COVID: s CIDI total symptom missings	Cont
2	R2CCIDIMDE3	r2ccidimde3:r2 COVID: r CIDI probable major depressive episo	Categ
2	S2CCIDIMDE3	s2ccidimde3:r2 COVID: s CIDI probable major depressive episo	Categ
2	R2CCIDIMDE5	r2ccidimde5:r2 COVID: r CIDI probable major depressive episo	Categ
2	S2CCIDIMDE5	s2ccidimde5:r2 COVID: s CIDI probable major depressive episo	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2CCIDIDEP	992	4.45	1.57	0.00	7.00
S2CCIDIDEP	362	4.37	1.63	0.00	7.00
R2CCIDIDEPM	993	1.04	0.79	0.00	7.00
S2CCIDIDEPM	362	1.00	0.73	0.00	4.00
R2CCIDIANH	125	4.59	1.56	1.00	7.00
S2CCIDIANH	59	4.63	1.56	1.00	7.00
R2CCIDIANHM	125	0.25	0.53	0.00	2.00
S2CCIDIANHM	59	0.24	0.54	0.00	2.00
R2CCIDISYMP	10579	0.47	1.46	0.00	7.00
S2CCIDISYMP	5262	0.35	1.28	0.00	7.00
R2CCIDISYMPM	10580	0.10	0.39	0.00	7.00

S2CCIDISYMPM	5262	0.07	0.32	0.00	4.00
R2CCIDIMDE3	10579	0.09	0.29	0.00	1.00
S2CCIDIMDE3	5262	0.07	0.25	0.00	1.00
R2CCIDIMDE5	10579	0.06	0.23	0.00	1.00
S2CCIDIMDE5	5262	0.04	0.20	0.00	1.00

Categorical Variable Codes

Value	R2CCIDIMDE3
.m:Missing	991
0.No	9605
1.Yes	974

Value	S2CCIDIMDE3
.m:Missing	390
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.No	4901
1.Yes	361

Value	R2CCIDIMDE5
.m:Missing	991
0.No	9963
1.Yes	616

Value	S2CCIDIMDE5
.m:Missing	390
.u:Unmar	3974
.v:SP NR	1137
.z:Not in wave 15	807
0.No	5041
1.Yes	221

How Constructed:

The following variables in this section reference a series of questions that screen for major depressive episodes since March 2020. The test consists of questions measuring dysphoria (depressed mood) and anhedonia (the loss of interest in things that usually give them pleasure). These questions were only asked at Round 2.

Respondents are first asked whether there was ever a time they felt sad, blue or depressed (dysphoria) for two weeks or more in a row since March 2020. If the respondent reports that there was never a time that they felt sad, blue, or depressed, they are then asked whether there was ever a time lasting two weeks or more when they lost interest in most things - like hobbies, work, or activities that usually give them pleasure (anhedonia) - since March 2020. If the respondent reports yes to having felt sad, blue, or depressed for two weeks or more in a row or to losing interest in most things for two weeks or more since March 2020, they are then asked to report whether these feelings lasted all day long, most of the day, about half the day, or less than half the day during the two-week period when these feelings were at their worst. These respondents are also asked to report whether they felt this way every day, almost every day, or less often during the two weeks when these feelings were the worst. These respondents are additionally asked whether they have experienced any of the following symptoms during the two weeks when their feelings were the worst: felt tired out or low energy all the time; loss of appetite; increase in appetite; had more trouble falling asleep than usual; had more trouble concentrating than usual; felt down on themselves, no good, or worthless; and thought a lot about death, either their own, someone else's, or death in general.

The skip pattern for these questions differs between the HRS core survey and the HRS COVID-19 survey. In the HRS core survey, if the respondent reports that the feelings of sadness or loss of interest lasted about half the day or less than half the day during the two week period, they are not asked how often they felt this way or whether they experienced any other symptoms during the two week period. In

addition, if the respondent reports that they experienced the feelings of sadness or loss of interest less often than almost every day, they are not asked whether they experienced any other symptoms during the two week period. In the COVID questionnaire, if the respondent reports having feelings of sadness or loss of interest, then they are asked how much of the day and how frequently they experienced these feelings, as well as whether they experienced any other symptoms during the two week period. The following variables were coded to be comparable with the Harmonized HRS by following the skip pattern used in the HRS core survey.

RrCCIDIDEP sums the score of the questions that ask about having symptoms of dysphoria and ranges from 0 to 7. RrCCIDIDEP is only available at Round 2. The symptoms include: felt more tired out or low in energy than is usual; change in appetite (either lost appetite or increased appetite, asked separately); had more trouble falling asleep than usual; had a lot more trouble concentrating than usual; felt down on themselves, and no good or worthless; and thought a lot about death, either their own, someone else's, or death in general. Each positive response adds one to the total. One is also added to the total if the respondent reported yes to both the preliminary dysphoria and anhedonia questions. RrCCIDIDEP is calculated as long as at least one of the measures is not missing. RrCCIDIDEPM counts the number of components with missing responses. RrCCIDIDEP and RrCCIDIDEPM are assigned special missing (.n) if the following questions were not asked because the respondent did not pass the dysphoria screening. Don't know, refused, or other missing responses to the components of RrCCIDIDEP are assigned special missing codes (.d), (.r), or (.m), respectively. RrCCIDIDEP and RrCCIDIDEPM are set to plain missing (.) for respondents who did not respond to the current round.

RrCCIDIANH sums the score of the questions that ask about having symptoms of anhedonia and ranges from 0 to 7. RrCCIDIANH is only available at Round 2. The symptoms include: felt tired out or low on energy all the time; change in appetite (either lost appetite or increased appetite, asked separately); had more trouble falling asleep than usual; had more trouble concentrating than usual; felt down on themselves, no good or worthless; and thought a lot about death, either their own, someone else's, or death in general. Each positive response (including to the preliminary anhedonia question) adds one to the total, and RrCCIDIANH is calculated as long as at least one of the measures is not missing. RrCCIDIANHM counts the number of components with missing responses. RrCCIDIANH and RrCCIDIANHM are assigned special missing (.n) if the following questions were not asked because the respondent already passed the dysphoria screening or did not pass the anhedonia screening. Don't know, refused, or other missing responses to the components of RrCCIDIANH are assigned special missing codes (.d), (.r), or (.m), respectively. RrCCIDIANH and RrCCIDIANHM are set to plain missing (.) for respondents who did not respond to the current round.

RrCCIDISYMP indicates the total number of symptoms the respondent reported experiencing since March 2020. RrCCIDISYMP is only available at Round 2. RrCCIDISYMP will take the value of RrCCIDIDEP if the respondent reported yes to the preliminary dysphoria question, and will take the value of RrCCIDIANH if the respondent reported no to the preliminary dysphoria question and yes to the preliminary anhedonia question. If the respondent reported no to both the preliminary dysphoria and anhedonia questions, then RrCCIDISYMP is assigned a value of 0 since it is assumed that they are exhibiting no symptoms of depression. RrCCIDISYMPM counts the number of components with missing responses. Don't know, refused, or other missing responses to the components of RrCCIDISYMP are assigned special missing codes (.d), (.r), or (.m), respectively. RrCCIDISYMP and RrCCIDISYMPM are set to plain missing (.) for respondents who did not respond to the current round.

RrCCIDIMDE3 and RrCCIDIMDE5 indicate whether the respondent has had a probable major depressive episode since March 2020. RrCCIDIMDE3 and RrCCIDIMDE5 are only available at Round 2. RrCCIDIMDE3 uses a threshold of 3 or more symptoms, while RrCCIDIMDE5 uses a threshold of 5 or more symptoms to indicate a probable major depressive episode. RrCCIDIMDE3 is assigned a value of 0 if the respondent exhibited 0 to 2 symptoms, and assigned a value of 1 if the respondent exhibited 3 to 7 symptoms. RrCCIDIMDE5 is assigned a value of 0 if the respondent exhibited 0 to 4 symptoms, and assigned a value of 1 if the respondent exhibited 5 to 7 symptoms. Don't know, refused, or other missing responses to the components of RrCCIDIMDE3 and RrCCIDIMDE5 are assigned special missing codes (.d), (.r), or (.m), respectively. RrCCIDIMDE3 and RrCCIDIMDE5 are set to plain missing (.) for respondents who did not respond to the current round.

SrCCIDIDEP, SrCCIDIDEPM, SrCCIDIANH, SrCCIDIANHM, SrCCIDISYMP, SrCCIDISYMPM, SrCCIDIMDE3, and SrCCIDIMDE5 indicate the respondent's spouse's experience with a major depressive episode since March 2020, and their values are taken from RrCCIDIDEP, RrCCIDIDEPM, RrCCIDIANH, RrCCIDIANHM, RrCCIDISYMP, RrCCIDISYMPM, RrCCIDIMDE3, and RrCCIDIMDE5. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes: (.u) and (.v). The special missing value (.u) is used when the respondent does not report being coupled in the current round. The

special missing code (.v) is used when the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Questions related to CIDI depressive measures were added to HRS COVID-19 study at Round 2.

Comparability with the RAND HRS/Harmonized HRS

RrCCIDIDEP: This variable is comparable to RwCIDIDEP in the Harmonized HRS.

RrCCIDIDEPM: This variable is comparable to RwCIDIDEPM in the Harmonized HRS.

RrCCIDIANH: This variable is comparable to RwCIDIANH in the Harmonized HRS.

RrCCIDIANHM: This variable is comparable to RwCIDIANHM in the Harmonized HRS.

RrCCIDISYMP: This variable is comparable to RwCIDISYMP in the Harmonized HRS.

RrCCIDISYMPM: This variable is comparable to RwCIDISYMPM in the Harmonized HRS.

RrCCIDIMDE3: This variable is comparable to RwCIDIMDE3 in the Harmonized HRS.

RrCCIDIMDE5: This variable is comparable to RwCIDIMDE5 in the Harmonized HRS.

HRS Variables Used:

```
Round 2 COVID-19 Spring:
    H4_21S                      SNC 3/2020 SAD/DEPRESSED/BLUE-MORE THAN TWO
    H5_21S                      SNC 3/2020 LOST INTEREST IN THINGS-MORE THAN
    H6_21S                      WHEN SAD FEELINGS/LOSS OF INTEREST AT WORST
    H7_21S                      HOW OFTEN FELT SAD/HAD LOSS OF INTEREST
    H8A_21S                     DURING SAME TWO WEEKS-FEEL TIRED/LOW ENERGY
    H8B_21S                     DURING SAME TWO WEEKS-LOSE APPETITE
    H8C_21S                     DURING SAME TWO WEEKS-APPETITE INCREASED
    H8D_21S                     DURING SAME TWO WEEKS-MORE TROUBLE FALLING A
    H8E_21S                     DURING SAME TWO WEEKS-MORE TROUBLE CONCENTRA
    H8F_21S                     DURING SAME TWO WEEKS-FEEL DOWN/NO GOOD/WORT
    H8G_21S                     DURING SAME TWO WEEKS-THINK ABOUT DEATH
Round 2 COVID-19 Fall:
    H4_21F                      SNC 3/2020 SAD/DEPRESSED/BLUE-MORE THAN TWO
    H5_21F                      SNC 3/2020 LOST INTEREST IN THINGS-MORE THAN
    H6_21F                      WHEN SAD FEELINGS/LOSS OF INTEREST AT WORST
    H7_21F                      HOW OFTEN FELT SAD/HAD LOSS OF INTEREST
    H8A_21F                     DURING SAME TWO WEEKS-FEEL TIRED/LOW ENERGY
    H8B_21F                     DURING SAME TWO WEEKS-LOSE APPETITE
    H8C_21F                     DURING SAME TWO WEEKS-APPETITE INCREASED
    H8D_21F                     DURING SAME TWO WEEKS-MORE TROUBLE FALLING A
    H8E_21F                     DURING SAME TWO WEEKS-MORE TROUBLE CONCENTRA
    H8F_21F                     DURING SAME TWO WEEKS-FEEL DOWN/NO GOOD/WORT
    H8G_21F                     DURING SAME TWO WEEKS-THINK ABOUT DEATH
```

Single Life Satisfaction Question

Round	Variable	Label	Type
1	R1CSATLIFE_H	r1csatlife_h:r1 COVID: r satisfied with life	Categ
1	S1CSATLIFE_H	s1csatlife_h:r1 COVID: s satisfied with life	Categ
1	R1CSATLIFEZ	r1csatlifez:r1 COVID: r satisfied with life z-score	Cont
1	S1CSATLIFEZ	s1csatlifez:r1 COVID: s satisfied with life z-score	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CSATLIFE_H	9569	3.82	0.86	1.00	5.00
S1CSATLIFE_H	4536	3.97	0.78	1.00	5.00
R1CSATLIFEZ	9569	0.00	1.00	-3.27	1.37
S1CSATLIFEZ	4536	0.17	0.90	-3.27	1.37

Categorical Variable Codes

Value	R1CSATLIFE_H
.d:DK	166
.p:Proxy	606
.r:Refuse	11
1.Not at all satisfied	108
2.Not very satisfied	389
3.Somewhat satisfied	2767
4.Very satisfied	4179
5.Completely satisfied	2126

Value	S1CSATLIFE_H
.d:DK	71
.p:Proxy	303
.r:Refuse	4
.u:Unmar	4277
.v:SP NR	1161
1.Not at all satisfied	19
2.Not very satisfied	100
3.Somewhat satisfied	1037
4.Very satisfied	2244
5.Completely satisfied	1136

How Constructed:

RrCSATLIFE_H and RrCSATLIFEZ indicate the respondent's level of life satisfaction. This question is only asked at Round 1. The respondent is asked to rate their level of satisfaction with their life as a whole. The responses to this question are collected with the following response scale: 1.completely satisfied, 2.very satisfied, 3.somewhat satisfied, 4.not very satisfied, or 5.not at all satisfied. To make RrCSATLIFE_H comparable across Harmonized datasets, responses to this question have been reverse-coded, so that RrCSATLIFE_H is coded as follows: 1.not at all satisfied, 2.not very satisfied, 3.somewhat satisfied, 4.very satisfied, and 5.completely satisfied. RrCSATLIFEZ is a z-scored version of the respondent's level of life satisfaction, and is calculated by z-scoring RrCSATLIFE_H. Special missing value (.p) is assigned if the respondent was not asked the question because the interview was by proxy. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCSATLIFE_H and RrCSATLIFEZ are coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCSATLIFE_H and SrCSATLIFEZ indicate the respondent's spouse's level of life satisfaction. SrCSATLIFE_H and SrCSATLIFEZ are taken from the spouse's values to RrCSATLIFE_H and RrCSATLIFEZ, respectively. In addition to the special missing values used in RrCSATLIFE_H and RrCSATLIFEZ, SrCSATLIFE_H and SrCSATLIFEZ employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed.

Cross Round Differences in HRS

Unlike Round 1, Round 2 does not ask respondents to rate their level of satisfaction with their life as a whole.

Comparability with the RAND HRS/Harmonized HRS

RrCSATLIFE_H: This variable is comparable to RwSATLIFE_H in the Harmonized HRS.

RrCSATLIFEZ: This variable is comparable to RwSATLIFEZ in the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RB000                       life satisfaction
```

Discrimination During Pandemic

Round	Variable	Label	Type
1	R1CEXDSCR	r1cexdscr:r1 COVID: r experienced discrimination during pand	Categ
2	R2CEXDSCR	r2cexdscr:r2 COVID: r experienced discrimination since March	Categ
1	S1CEXDSCR	s1cexdscr:r1 COVID: s experienced discrimination during pand	Categ
2	S2CEXDSCR	s2cexdscr:r2 COVID: s experienced discrimination since March	Categ
1	R1CEXDSCRC	r1cexdscrc:r1 COVID: r discrimination compared to before pan	Categ
2	R2CEXDSCRC	r2cexdscrc:r2 COVID: r discrimination compared to before pan	Categ
1	S1CEXDSCRC	s1cexdscrc:r1 COVID: s discrimination compared to before pan	Categ
2	S2CEXDSCRC	s2cexdscrc:r2 COVID: s discrimination compared to before pan	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CEXDSCR	4555	0.12	0.33	0.00	1.00
R2CEXDSCR	11243	0.15	0.35	0.00	1.00
S1CEXDSCR	2613	0.10	0.31	0.00	1.00
S2CEXDSCR	5557	0.13	0.33	0.00	1.00
R1CEXDSCRC	4394	1.98	0.36	1.00	3.00
R2CEXDSCRC	10727	1.98	0.36	1.00	3.00
S1CEXDSCRC	2531	1.98	0.35	1.00	3.00
S2CEXDSCRC	5332	1.99	0.34	1.00	3.00

Categorical Variable Codes

Value	R1CEXDSCR	R2CEXDSCR
.m:Missing	115	327
.s:Not in self-completion q	5682	
0.No	4007	9599
1.Yes	548	1644

Value	S1CEXDSCR	S2CEXDSCR
.m:Missing	53	95
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
0.No	2340	4858
1.Yes	273	699

Value	R1CEXDSCRC	R2CEXDSCRC
.m:Missing	116	305
.n:No discrimination	160	538
.s:Not in self-completion q	5682	
1.Less often	333	808
2.About the same	3820	9302
3.More often	241	617

Value	S1CEXDSCRC	S2CEXDSCRC
.m:Missing	54	88
.n:No discrimination	81	232
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Less often	176	339

2.About the same	2224	4718
3.More often	131	275

How Constructed:

At Round 1, the respondent is asked to report how often they experienced discrimination (due to their race/ethnicity, age, gender, financial status, disability, weight, physical appearance, religion, etc.) in everyday life since the beginning of the COVID-19 pandemic. At Round 1, respondents can report that they experienced discrimination in everyday life "often", "sometimes", or "hardly ever or never" since the beginning of the pandemic. At Round 2, the respondent is asked to report how often they experienced discrimination in everyday life (due to their race/ethnicity, age, gender, financial status, disability, weight, physical appearance, religion, etc.) in everyday life since March 2020. At Round 2, respondents can report that they experienced discrimination in everyday life "often", "sometimes", "hardly ever", or "never" since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

RrCEXDSCR indicates whether the respondent experienced discrimination in everyday life during the COVID-19 pandemic. RrCEXDSCR is coded as 0 if the respondent reports that they hardly ever or never experienced discrimination in everyday life during the pandemic. RrCEXDSCR is coded as 1 if the respondent reports that they sometimes or often experienced discrimination in everyday life during the pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCEXDSCR is coded as plain missing (.) if the respondent did not participate in the current COVID round.

RrCEXDSCRC indicates how often the respondent experienced discrimination in everyday life during the COVID-19 pandemic compared to before the pandemic. Respondents can report that the discrimination that they experienced in everyday life during the pandemic was "about the same", "less so", or "more so" compared to the discrimination that they experienced in everyday life before the pandemic. This question is asked without regard to how often the respondent experienced discrimination. RrCEXDSCRC is coded as 1 if the respondent reports that they experienced less discrimination in everyday life during the pandemic than they did before the pandemic. RrCEXDSCRC is coded as 2 if the respondent reports that they experienced about the same amount of discrimination in everyday life during the pandemic as they did before the pandemic. RrCEXDSCRC is coded as 3 if the respondent reports that they experienced more discrimination in everyday life during the pandemic than they did before the pandemic. RrCEXDSCRC is assigned special missing value (.n) if the respondent reported hardly ever or never experiencing discrimination and erroneously skipped the question asking about the frequency compared to before the pandemic. At Round 1, special missing value (.s) is assigned if the respondent did not participate in the self-completion questionnaire. Don't know, refused, and missing responses are coded as special missing values (.d), (.r), and (.m), respectively. RrCEXDSCRC is coded as plain missing (.) if the respondent did not participate in the current COVID round.

SrCEXDSCR indicates whether the respondent's spouse experienced discrimination in everyday life during the COVID-19 pandemic. SrCEXDSCRC indicates how often the respondent's spouse experienced discrimination in everyday life during the COVID-19 pandemic compared to before the pandemic. SrCEXDSCR and SrCEXDSCRC are taken from the spouse's values to RrCEXDSCR and RrCEXDSCRC, respectively. In addition to the special missing values used in RrCEXDSCR and RrCEXDSCRC, SrCEXDSCR and SrCEXDSCRC employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current round. Special missing value (.v) is assigned if the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

At Round 1, the respondent is asked to report how often they experienced discrimination (due to their race/ethnicity, age, gender, financial status, disability, weight, physical appearance, religion, etc.) in everyday life since the beginning of the COVID-19 pandemic. At Round 1, respondents can report that they experienced discrimination in everyday life "often", "sometimes", or "hardly ever or never" since the beginning of the pandemic. At Round 2, the respondent is asked to report how often they experienced discrimination in everyday life (due to their race/ethnicity, age, gender, financial status, disability, weight, physical appearance, religion, etc.) in everyday life since March 2020. At Round 2, respondents can report that they experienced discrimination in everyday life "often", "sometimes", "hardly ever", or

"never" since March 2020. As a result, it is possible that the time periods referenced in these questions may overlap for some respondents.

Comparability with the RAND HRS/Harmonized HRS

No comparable variable is available in the RAND HRS or the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB067                      q67. experienced discrimination in everyday
    RLB067A                     q67a. about the same
Round 2 COVID-19 Spring:
    H12_21S                     FELT DISCRIMINATION SINCE 3/2020
    H13_21S                     SAME/MORE/LESS DISCRIMINATION
Round 2 COVID-19 Fall:
    H12_21F                     FELT DISCRIMINATION SINCE 3/2020
    H13_21F                     SAME/MORE/LESS DISCRIMINATION
```

PANAS-X: Positive Affect Items

Round	Variable	Label	Type
1	R1CDTRMND	r1cdtrmnd:r1 COVID: PANAS-X: degree r felt determined last 3	Categ
2	R2CDTRMND	r2cdtrmnd:r2 COVID: PANAS-X: degree r felt determined 1st yr	Categ
1	S1CDTRMND	s1cdtrmnd:r1 COVID: PANAS-X: degree s felt determined last 3	Categ
2	S2CDTRMND	s2cdtrmnd:r2 COVID: PANAS-X: degree s felt determined 1st yr	Categ
1	R1CFHAPPY	r1cfhappy:r1 COVID: PANAS-X: degree r felt happy last 30 day	Categ
2	R2CFHAPPY	r2cfhappy:r2 COVID: PANAS-X: degree r felt happy 1st yr pndm	Categ
1	S1CFHAPPY	s1cfhappy:r1 COVID: PANAS-X: degree s felt happy last 30 day	Categ
2	S2CFHAPPY	s2cfhappy:r2 COVID: PANAS-X: degree s felt happy 1st yr pndm	Categ
1	R1CCONTENT	r1ccontent:r1 COVID: PANAS-X: degree r felt content last 30	Categ
2	R2CCONTENT	r2ccontent:r2 COVID: PANAS-X: degree r felt content 1st yr p	Categ
1	S1CCONTENT	s1ccontent:r1 COVID: PANAS-X: degree s felt content last 30	Categ
2	S2CCONTENT	s2ccontent:r2 COVID: PANAS-X: degree s felt content 1st yr p	Categ
1	R1CHOPEFUL	r1chopeful:r1 COVID: PANAS-X: degree r felt hopeful last 30	Categ
2	R2CHOPEFUL	r2chopeful:r2 COVID: PANAS-X: degree r felt hopeful 1st yr p	Categ
1	S1CHOPEFUL	s1chopeful:r1 COVID: PANAS-X: degree s felt hopeful last 30	Categ
2	S2CHOPEFUL	s2chopeful:r2 COVID: PANAS-X: degree s felt hopeful 1st yr p	Categ
1	R1CCALM	r1ccalm:r1 COVID: PANAS-X: degree r felt calm last 30 days	Categ
2	R2CCALM	r2ccalm:r2 COVID: PANAS-X: degree r felt calm 1st yr pndmc	Categ
1	S1CCALM	s1ccalm:r1 COVID: PANAS-X: degree s felt calm last 30 days	Categ
2	S2CCALM	s2ccalm:r2 COVID: PANAS-X: degree s felt calm 1st yr pndmc	Categ
1	R1CPANASP5	r1cpanasp5:r1 r COVID: PANAS-X average positive affect score	Cont
2	R2CPANASP5	r2cpanasp5:r2 r COVID: PANAS-X average positive affect score	Cont
1	S1CPANASP5	s1cpanasp5:r1 s COVID: PANAS-X average positive affect score	Cont
2	S2CPANASP5	s2cpanasp5:r2 s COVID: PANAS-X average positive affect score	Cont
1	R1CPANASP5M	r1cpanasp5m:r1 r COVID: PANAS-X positive affect score missin	Cont
2	R2CPANASP5M	r2cpanasp5m:r2 r COVID: PANAS-X positive affect score missin	Cont
1	S1CPANASP5M	s1cpanasp5m:r1 s COVID: PANAS-X positive affect score missin	Cont
2	S2CPANASP5M	s2cpanasp5m:r2 s COVID: PANAS-X positive affect score missin	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CDTRMND	4543	3.52	1.17	1.00	5.00
R2CDTRMND	11041	3.61	1.03	1.00	5.00
S1CDTRMND	2609	3.54	1.15	1.00	5.00
S2CDTRMND	5470	3.65	1.00	1.00	5.00
R1CFHAPPY	4583	3.86	1.01	1.00	5.00
R2CFHAPPY	11212	3.32	1.03	1.00	5.00
S1CFHAPPY	2625	3.91	1.00	1.00	5.00
S2CFHAPPY	5549	3.40	0.99	1.00	5.00

R1CCONTENT	4562	3.64	1.12	1.00	5.00
R2CCONTENT	11131	3.27	1.09	1.00	5.00
S1CCONTENT	2620	3.72	1.07	1.00	5.00
S2CCONTENT	5517	3.34	1.05	1.00	5.00
R1CHOPEFUL	4583	3.62	1.10	1.00	5.00
R2CHOPEFUL	11234	3.34	1.07	1.00	5.00
S1CHOPEFUL	2626	3.66	1.06	1.00	5.00
S2CHOPEFUL	5548	3.36	1.05	1.00	5.00
R1CCALM	4602	3.69	1.03	1.00	5.00
R2CCALM	11199	3.39	1.03	1.00	5.00
S1CCALM	2636	3.70	1.02	1.00	5.00
S2CCALM	5534	3.43	1.00	1.00	5.00
R1CPANASP5	4599	3.67	0.83	1.00	5.00
R2CPANASP5	11242	3.39	0.88	1.00	5.00
S1CPANASP5	2635	3.70	0.82	1.00	5.00
S2CPANASP5	5562	3.44	0.85	1.00	5.00
R1CPANASP5M	4670	0.10	0.57	0.00	5.00
R2CPANASP5M	11570	0.18	0.81	0.00	5.00
S1CPANASP5M	2666	0.08	0.50	0.00	5.00
S2CPANASP5M	5652	0.11	0.63	0.00	5.00

Categorical Variable Codes

Value	R1CDTRMND	R2CDTRMND
.m:Missing	127	529
.s:Not in self-completion q	5682	
1.Not at all	300	315
2.A little	590	1140
3.Moderately	1131	3533
4.Quite a bit	1478	3550
5.Very much	1044	2503

Value	S1CDTRMND	S2CDTRMND
.m:Missing	57	182
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	157	125
2.A little	329	502
3.Moderately	659	1763
4.Quite a bit	876	1846
5.Very much	588	1234

Value	R1CFHAPPY	R2CFHAPPY
.m:Missing	87	358
.s:Not in self-completion q	5682	
1.Not at all	93	504
2.A little	379	1541
3.Moderately	1032	4617
4.Quite a bit	1671	2935
5.Very much	1408	1615

Value	S1CFHAPPY	S2CFHAPPY
.m:Missing	41	103
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137

.z:Not in wave 15		807
1.Not at all	53	169
2.A little	191	687
3.Moderately	548	2276
4.Quite a bit	989	1584
5.Very much	844	833

Value	R1CCONTENT	R2CCONTENT
.m:Missing	108	439
.s:Not in self-completion q	5682	
1.Not at all	237	691
2.A little	457	1813
3.Moderately	1158	4125
4.Quite a bit	1555	2822
5.Very much	1155	1680

Value	S1CCONTENT	S2CCONTENT
.m:Missing	46	135
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	100	256
2.A little	248	823
3.Moderately	623	2093
4.Quite a bit	960	1496
5.Very much	689	849

Value	R1CHOPEFUL	R2CHOPEFUL
.m:Missing	87	336
.s:Not in self-completion q	5682	
1.Not at all	151	507
2.A little	646	1738
3.Moderately	1148	4321
4.Quite a bit	1500	2730
5.Very much	1138	1938

Value	S1CHOPEFUL	S2CHOPEFUL
.m:Missing	40	104
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	65	202
2.A little	343	860
3.Moderately	667	2136
4.Quite a bit	902	1414
5.Very much	649	936

Value	R1CCALM	R2CCALM
.m:Missing	68	371
.s:Not in self-completion q	5682	
1.Not at all	118	408
2.A little	494	1574
3.Moderately	1200	4305
4.Quite a bit	1670	3096
5.Very much	1120	1816

Value	S1CCALM	S2CCALM
.m:Missing	30	118
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	59	147
2.A little	283	732
3.Moderately	696	2150
4.Quite a bit	957	1607
5.Very much	641	898

How Constructed:

The following variables indicate to what degree the respondent felt a particular feeling. Round 1 refers to the last 30 days while Round 2 refers to the first year of the COVID-19 pandemic (from March 2020 to

March 2021). Each of these items are reverse coded to fit the following 5-point scale: 1.Not at all, 2.A little, 3.Moderately, 4.Quite a bit, 5.Very much. At Round 1, special missing code (.s) is assigned if the respondent did not complete the self-completion questionnaire. Don't know, refused, or other missing values are assigned special missing codes (.d), (.r), (.m), respectively. These variables are set to plain missing (.) for respondents who did not respond to the current round.

RwCDTRMND indicates to what degree the respondent felt determined in the specified time period.

RwCFHAPPY indicates to what degree the respondent felt happy in the specified time period.

RwCCONTENT indicates to what degree the respondent felt content in the specified time period.

RwCHOPEFUL indicates to what degree the respondent felt hopeful in the specified time period.

RwCCALM indicates to what degree the respondent felt calm in the specified time period.

SwCDTRMND, SwCFHAPPY, SwCCONTENT, SwCHOPEFUL, and SwCCALM indicate to what degree the respondent's current round's spouse felt the particular feeling in the specified time period, and their values are taken from the corresponding respondent variables. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes, (.u) and (.v). A special missing value (.u) is used when the respondent does not report being coupled in the current round. A special missing value (.v) is used when the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

RwCPANASP5 is a 5-item index of positive affect and is the mean of RwCDTRMND, RwCFHAPPY, RwCCONTENT, RwCHOPEFUL, and RwCCALM. RwCPANASP5M is the count of the number of missing components for this summary. RwCPANASP5 is set to (.m) missing if 3 or more items have missing values, that is RwCPANASP5M ranges from 3 to 5. At Round 1, special missing code (.s) is assigned if the respondent did not complete the self-completion questionnaire. Don't know, refused, or other missing values are assigned special missing codes (.d), (.r), (.m), respectively. These variables are set to plain missing (.) for respondents who did not respond to the current round.

SwCPANASP5 is a 5-item index of positive affect for the respondent's current round's spouse and its value is taken from the corresponding respondent variable. SwCPANASP5M is the count of the number of missing components in this summary and its value is taken from the corresponding respondent variable. In addition to the special missing codes employed by the respondent variables, SwCPANASP5 and SwCPANASP5M employ two additional special missing codes, (.u) and (.v). A special missing value (.u) is used when the respondent does not report being coupled in the current round. A special missing value (.v) is used when the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Round 1 asks respondents to report how they were feeling in the past 30 days. Round 2 asks respondents to report how they were feeling during the first year of the pandemic (from March 2020 to March 2021).

Comparability with the RAND HRS/Harmonized HRS

The HRS core survey includes the full 13-item version of the PANAS-X positive affect survey (RwDTRMND, RwENTHSTC, RwACTIVE, RwPROUD, RwINTRSTD, RwFHAPPY, RwATTNTV, RwCONTENT, RwINSPRD, RwHOPEFUL, RwALERT, RwCALM, and RwEXCTD) while the HRS COVID-19 survey only includes 5 of those measures (RrCDTRMND, RrCFHAPPY, RrCCONTENT, RrCHOPEFUL, and RrCCALM). As a result, the Harmonized HRS includes a 13-item summary score, and the Harmonized HRS COVID includes a 5-item summary score. Additionally, the Harmonized HRS asks respondents to report how often they experienced a particular feeling in the past 30 days, while the HRS COVID-19 study asks respondents to report how often they experienced a particular feeling during the first year of the COVID-19 pandemic (from March 2020 to March 2021).

RrCDTRMND: This variable is comparable to RwDTRMND in the Harmonized HRS.

RrCFHAPPY: This variable is comparable to RwFHAPPY in the Harmonized HRS.

RrCCONTENT: This variable is comparable to RwCONTENT in the Harmonized HRS.

RrCHOPEFUL: This variable is comparable to RwHOPEFUL in the Harmonized HRS.

RrCCALM: This variable is comparable to RwCALM in the Harmonized HRS.

HRS Variables Used:

```
Round 1 COVID-19:
    RLB026C                     q26c. determined
    RLB026K                     q26k. happy
    RLB026Q                     q26q. content
    RLB026U                     q26u. hopeful
    RLB026X                     q26x. calm
Round 2 COVID-19 Spring:
    H3A_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-HOPEFUL
    H3B_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-HAPPY
    H3C_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-CALM
    H3D_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-CONTENT
    H3E_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-DETERMINE
Round 2 COVID-19 Fall:
    H3A_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-HOPEFUL
    H3B_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-HAPPY
    H3C_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-CALM
    H3D_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-CONTENT
    H3E_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-DETERMINE
```

PANAS-X: Negative Affect Items

Round	Variable	Label	Type
1	R1CAFRAID	r1cafraid:r1 COVID: PANAS-X: degree r felt afraid last 30 da	Categ
2	R2CAFRAID	r2cafraid:r2 COVID: PANAS-X: degree r felt afraid 1st yr pnd	Categ
1	S1CAFRAID	s1cafraid:r1 COVID: PANAS-X: degree s felt afraid last 30 da	Categ
2	S2CAFRAID	s2cafraid:r2 COVID: PANAS-X: degree s felt afraid 1st yr pnd	Categ
1	R1CBORED	r1cbored:r1 COVID: PANAS-X: degree r felt bored last 30 days	Categ
2	R2CBORED	r2cbored:r2 COVID: PANAS-X: degree r felt bored 1st yr pndmc	Categ
1	S1CBORED	s1cbored:r1 COVID: PANAS-X: degree s felt bored last 30 days	Categ
2	S2CBORED	s2cbored:r2 COVID: PANAS-X: degree s felt bored 1st yr pndmc	Categ
1	R1CNRVOUS	r1cnrvous:r1 COVID: PANAS-X: degree r felt nervous last 30 d	Categ
2	R2CNRVOUS	r2cnrvous:r2 COVID: PANAS-X: degree r felt nervous 1st yr pn	Categ
1	S1CNRVOUS	s1cnrvous:r1 COVID: PANAS-X: degree s felt nervous last 30 d	Categ
2	S2CNRVOUS	s2cnrvous:r2 COVID: PANAS-X: degree s felt nervous 1st yr pn	Categ
1	R1CPFSAD	r1cpfsad:r1 COVID: PANAS-X: degree r felt sad last 30 days	Categ
2	R2CPFSAD	r2cpfsad:r2 COVID: PANAS-X: degree r felt sad 1st yr pndmc	Categ
1	S1CPFSAD	s1cpfsad:r1 COVID: PANAS-X: degree s felt sad last 30 days	Categ
2	S2CPFSAD	s2cpfsad:r2 COVID: PANAS-X: degree s felt sad 1st yr pndmc	Categ
1	R1CDSTRES	r1cdstres:r1 COVID: PANAS-X: degree r felt distressed last 3	Categ
2	R2CDSTRES	r2cdstres:r2 COVID: PANAS-X: degree r felt distressed 1st yr	Categ
1	S1CDSTRES	s1cdstres:r1 COVID: PANAS-X: degree s felt distressed last 3	Categ
2	S2CDSTRES	s2cdstres:r2 COVID: PANAS-X: degree s felt distressed 1st yr	Categ
1	R1CPANASN5	r1cpanasn5:r1 r COVID: PANAS-X average negative affect score	Cont
2	R2CPANASN5	r2cpanasn5:r2 r COVID: PANAS-X average negative affect score	Cont
1	S1CPANASN5	s1cpanasn5:r1 s COVID: PANAS-X average negative affect score	Cont
2	S2CPANASN5	s2cpanasn5:r2 s COVID: PANAS-X average negative affect score	Cont
1	R1CPANASN5M	r1cpanasn5m:r1 r COVID: PANAS-X negative affect score missin	Cont
2	R2CPANASN5M	r2cpanasn5m:r2 r COVID: PANAS-X negative affect score missin	Cont
1	S1CPANASN5M	s1cpanasn5m:r1 s COVID: PANAS-X negative affect score missin	Cont
2	S2CPANASN5M	s2cpanasn5m:r2 s COVID: PANAS-X negative affect score missin	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CAFRAID	4596	1.64	0.90	1.00	5.00
R2CAFRAID	11192	2.25	1.17	1.00	5.00
S1CAFRAID	2636	1.63	0.88	1.00	5.00
S2CAFRAID	5529	2.19	1.13	1.00	5.00
R1CBORED	4576	2.18	1.11	1.00	5.00
R2CBORED	11151	2.61	1.24	1.00	5.00
S1CBORED	2626	2.10	1.06	1.00	5.00
S2CBORED	5532	2.52	1.21	1.00	5.00

R1CNRVOUS	4583	1.92	1.01	1.00	5.00
R2CNRVOUS	11234	2.28	1.17	1.00	5.00
S1CNRVOUS	2628	1.90	0.99	1.00	5.00
S2CNRVOUS	5549	2.19	1.11	1.00	5.00
R1CPFSAD	4595	2.05	1.02	1.00	5.00
R2CPFSAD	11235	2.26	1.16	1.00	5.00
S1CPFSAD	2629	1.97	0.98	1.00	5.00
S2CPFSAD	5551	2.12	1.08	1.00	5.00
R1CDSTRES	4567	1.90	1.01	1.00	5.00
R2CDSTRES	11145	2.37	1.14	1.00	5.00
S1CDSTRES	2620	1.87	0.98	1.00	5.00
S2CDSTRES	5521	2.31	1.10	1.00	5.00
R1CPANASN5	4605	1.94	0.75	1.00	5.00
R2CPANASN5	11255	2.35	0.95	1.00	5.00
S1CPANASN5	2639	1.89	0.73	1.00	5.00
S2CPANASN5	5564	2.27	0.90	1.00	5.00
R1CPANASN5M	4670	0.09	0.55	0.00	5.00
R2CPANASN5M	11570	0.16	0.80	0.00	5.00
S1CPANASN5M	2666	0.07	0.48	0.00	5.00
S2CPANASN5M	5652	0.10	0.62	0.00	5.00

Categorical Variable Codes

Value	R1CAFRAID	R2CAFRAID
.m:Missing	74	378
.s:Not in self-completion q	5682	
1.Not at all	2615	3558
2.A little	1341	3636
3.Moderately	417	2292
4.Quite a bit	145	1063
5.Very much	78	643

Value	S1CAFRAID	S2CAFRAID
.m:Missing	30	123
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	1499	1821
2.A little	781	1824
3.Moderately	239	1132
4.Quite a bit	75	499
5.Very much	42	253

Value	R1CBORED	R2CBORED
.m:Missing	94	419
.s:Not in self-completion q	5682	
1.Not at all	1455	2441
2.A little	1668	3298
3.Moderately	829	2640
4.Quite a bit	433	1752
5.Very much	191	1020

Value	S1CBORED	S2CBORED
.m:Missing	40	120
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137

.z:Not in wave 15		807
1.Not at all	875	1281
2.A little	992	1715
3.Moderately	458	1308
4.Quite a bit	218	815
5.Very much	83	413

Value	R1CNRVOUS	R2CNRVOUS
.m:Missing	87	336
.s:Not in self-completion q	5682	
1.Not at all	1871	3487
2.A little	1763	3532
3.Moderately	538	2485
4.Quite a bit	276	1085
5.Very much	135	645

Value	S1CNRVOUS	S2CNRVOUS
.m:Missing	38	103
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	1063	1804
2.A little	1049	1810
3.Moderately	293	1221
4.Quite a bit	155	491
5.Very much	68	223

Value	R1CPFSAD	R2CPFSAD
.m:Missing	75	335
.s:Not in self-completion q	5682	
1.Not at all	1499	3500
2.A little	2023	3690
3.Moderately	600	2348
4.Quite a bit	313	1060
5.Very much	160	637

Value	S1CPFSAD	S2CPFSAD
.m:Missing	37	101
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	921	1934
2.A little	1164	1876
3.Moderately	319	1102
4.Quite a bit	151	436
5.Very much	74	203

Value	R1CDSTRES	R2CDSTRES
.m:Missing	103	425
.s:Not in self-completion q	5682	
1.Not at all	1936	2924
2.A little	1672	3546
3.Moderately	551	2820
4.Quite a bit	289	1282
5.Very much	119	573

Value	S1CDSTRES	S2CDSTRES
.m:Missing	46	131
.s:Not in self-completion q	2248	
.u:Unmar	4277	3974
.v:SP NR	1161	1137
.z:Not in wave 15		807
1.Not at all	1132	1526
2.A little	967	1801
3.Moderately	310	1384
4.Quite a bit	153	588
5.Very much	58	222

How Constructed:

The following variables indicate to what degree the respondent felt a particular feeling. Round 1 refers to the last 30 days while Round 2 refers to the first year of the COVID-19 pandemic (from March 2020 to

March 2021). These questions were only asked at Round 2. Each of these items are reverse coded to fit the following 5-point scale: 1.Not at all, 2.A little, 3.Moderately, 4.Quite a bit, 5.Very much. At Round 1, special missing code (.s) is assigned if the respondent did not complete the self-completion questionnaire. Don't know, refused, or other missing values are assigned special missing codes (.d), (.r), (.m), respectively. These variables are set to plain missing (.) for respondents who did not respond to the current round.

RwCAFRAID indicates to what degree the respondent felt afraid in the specified time period.

RwCBORED indicates to what degree the respondent felt bored in the specified time period.

RwCNRVOUS indicates to what degree the respondent felt nervous in the specified time period.

RwCPFSAD indicates to what degree the respondent felt sad in the specified time period.

RwCDSTRES indicates to what degree the respondent felt distressed in the specified time period.

SwCAFRAID, SwCBORED, SwCNRVOUS, SwCPFSAD, and SwCDSTRES indicate to what degree the respondent's current round's spouse felt the particular feeling during the specified time period, and their values are taken from the corresponding respondent variables. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes, (.u) and (.v). A special missing value (.u) is used when the respondent does not report being coupled in the current round. A special missing value (.v) is used when the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

RwCPANASN5 is a 5-item index of negative affect and is the mean of RwCAFRAID, RwCBORED, RwCNRVOUS, RwCPFSAD, and RwCDSTRES. RwCPANASN5M is the count of the number of missing components for this summary. RwCPANASN5 is set to (.m) missing if 3 or more items have missing values, that is RwCPANASN5M ranges from 3 to 5. At Round 1, special missing code (.s) is assigned if the respondent did not complete the self-completion questionnaire. Don't know, refused, or other missing values are assigned special missing codes (.d), (.r), (.m), respectively. These variables are set to plain missing (.) for respondents who did not respond to the current round.

SwCPANASN5 is a 5-item index of negative affect for the respondent's current round's spouse and its value is taken from the corresponding respondent variable. SwCPANASN5M is the count of the number of missing components for this summary and its value is taken from the corresponding respondent variable. In addition to the special missing codes employed by the respondent variables, SwCPANASN5 and SwCPANASN5M employ two additional special missing codes, (.u) and (.v). A special missing value (.u) is used when the respondent does not report being coupled in the current round. A special missing value (.v) is used when the respondent reports being coupled in the current round but their spouse is not interviewed. At Round 2, special missing value (.z) is assigned if the respondent did not participate in the HRS core interview at Wave 15, so the identity of their spouse is unable to be determined.

Cross Round Differences in HRS

Round 1 asks respondents to report how they were feeling in the past 30 days. Round 2 asks respondents to report how they were feeling during the first year of the pandemic (from March 2020 to March 2021).

Comparability with the RAND HRS/Harmonized HRS

The HRS core survey includes the full 12-item version of the PANAS-X negative affect survey (RwAFRAID, RwFUPSET, RwGUILTY, RwSCARED, RwFRUSTRAT, RwBORED, RwHOSTILE, RwJITTERY, RwASHAMD, RwNRVOUS, RwPFSAD, and RwDSTRES) while the HRS COVID-19 survey only includes 5 of those measures (RrCAFRAID, RrCBORED, RrCNRVOUS, RrCPFSAD, and RrCDSTRES). As a result, the Harmonized HRS includes a 12-item summary score, and the Harmonized HRS COVID includes a 5-item summary score. Additionally, the Harmonized HRS asks respondents to report how often they experienced a particular feeling in the past 30 days, while the HRS COVID-19 study asks respondents to report how often they experienced a particular feeling during the first year of the COVID-19 pandemic (from March 2020 to March 2021).

RrCAFRAID: This variable is comparable to RwAFRAID in the Harmonized HRS.

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RrCBORED: This variable is comparable to RwBORED in the Harmonized HRS.

RrCNRVOUS: This variable is comparable to RwNRVOUS in the Harmonized HRS.

RrCPFSAD: This variable is comparable to RwPFSAD in the Harmonized HRS.

RrCDSTRES: This variable is comparable to RwDSTRES in the Harmonized HRS.
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HRS Variables Used:

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Round 1 COVID-19:
    RLB026A                     q26a. afraid
    RLB026L                     q26l. bored
    RLB026R                     q26r. nervous
    RLB026S                     q26s. sad
    RLB026W                     q26w. distressed
Round 2 COVID-19 Spring:
    H3F_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-BORED
    H3G_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-DISTRESSE
    H3H_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-AFRAID
    H3K_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-SAD
    H3L_21S                     FEEL DURING FIRST YEAR OF PANDEMIC-NERVOUS
Round 2 COVID-19 Fall:
    H3F_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-BORED
    H3G_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-DISTRESSE
    H3H_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-AFRAID
    H3K_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-SAD
    H3L_21F                     FEEL DURING FIRST YEAR OF PANDEMIC-NERVOUS
```

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