Attachment G - RANDS during COVID-19 Variable Crosswalk, Uses, a

Note:	This sheet includes the variables, crosswalk, purposes, and covariat
	The second sheet presents NCHS' estimates of prevalence used in th
	The third sheet presents the power calculation

Variable	Question Wording
ANXFREQ	How often do you feel worried, nervous or anxious? Would you say daily, weekly, monthly, a few times a year, or never?
ANXLEVEL	Thinking about the last time you felt worried, nervous or anxious, how would you describe the level of these feelings? [IF MODE=PHONE, READ: Would you say a little, a lot, or somewhere in between?]
ANXMED	Do you take prescription medication for these feelings?
COGMEMDFF	Do you have difficulty remembering or concentrating?
COMDIF	Using your usual language, do you have difficulty communicating, for example, understanding or being understood?
DEPFREQ	How often do you feel depressed? Would you say daily, weekly, monthly, a few times a year, or never?
DEPLEVEL	Thinking about the last time you felt depressed, how depressed did you feel? [IF MODE=PHONE, READ: Would you say a little, a lot, or somewhere in between?]
DEPMED	Do you take prescription medication for depression?
DIFF	Do you have difficulty walking or climbing steps?
EMPLASTWK	Last week, did you work for pay at a job or business?
HEARINGDF	Do you have difficulty hearing, even if using hearing aides?
HICOV	Are you covered by any kind of health insurance or some other kind of health care plan?
PHSTAT	Would you say your health in general is excellent, very good, good, fair, or poor?
PROBE_ DEP	Which of the following statements, if any, describe any of your feelings of being sad or depressed?

SMKEV	Have you smoked at least 100 cigarettes in your entire life?
SMNOW	Do you now smoke cigarettes every day, some days or not at all?
UPPSLFCR	Do you have difficulty with self care, such as washing all over or dressing?
USUALPL	Is there a place that you usually go to if you are sick and need health care?
VISIONDF	Do you have difficulty seeing, even if wearing glasses?
ASEV	[If Mode=Phone, read if necessary: Have you ever been told by a doctor or other health professional that you had] Asthma?
ASTILL	Do you still have asthma?
CANEV	[If Mode=Phone, read: Have you ever been told by a doctor or other health professional that you had] Cancer or a malignancy of any kind?
CHDEV	[If Mode=Phone, read: Have you ever been told by a doctor or other health professional that you had] Coronary heart disease?
CHLEV	[If Mode=Phone, read: Have you ever been told by a doctor or other health professional that you had] High cholesterol?
COPDEV	[If Mode=Phone, read if necessary: Have you ever been told by a doctor or other health professional that you had] Chronic Obstructive Pulmonary Disease, C.O.P.D., emphysema, or chronic bronchitis?
DIBEV	[IF PREDIB=1 or GESDIB=1, fill: Not including prediabetes or gestational diabetes] [If Mode=Phone, read: Have you ever been told by a doctor or other health professional that you had] Diabetes?
HYPEV	[If Mode=Phone, read: Have you ever been told by a doctor or other health professional that you had] Hypertension, also called high blood pressure?
PREDIB	[If Mode=Phone, read if necessary: Have you ever been told by a doctor or other health professional that you had] Prediabetes or borderline diabetes?
ALT_TELMED	Does this provider offer telephone or video appointments, so that you don't need to physically visit their office or facility?
COVID_NOWK	Were you unable to work because you or a family member was sick with the Coronavirus?
COVIDNOCAR	[FILL: "Regarding your NOCARTYP"] Were you unable able to get this because of the Coronavirus pandemic?

DNG_CARE At any time in the last 4 weeks, did you need medical care for something other than Coronavirus, but not get it because of the Coronavirus pandemic?

NOCARTYP In the last two months, were you unable to get any of the following types of care for any reason?

TELEMEDUSE In the last two months, have you had an appointment with a doctor, nurse, or other health professional by video or by phone?

TELMED In the last two months, has this provider offered you a telephone or video appointment

TELMEDNEW Did this provider offer telephone or video appointments before the Coronavirus pandemic?

COVID_HES Thinking specifically about potential COVID-19 vaccines, how hesitant would you consider yourself to be?

GAD71 [If Mode=Phone, read: Over the last 2 weeks, how often have you been bothered by any of the following problems?] Feeling nervous, anxious, or on edge. [If Mode=Phone, read if necessary: Would you say not at all, several days, more than half the days, or nearly every day?]

GAD72 [If Mode=Phone, read: Over the last 2 weeks, how often have you been bothered by any of the following problems?] Not being able to stop or control worrying. [If Mode=Phone, read if necessary: Would you say not at all, several days, more than half the days, or nearly every day?]

LIFESAT1 Using a scale of 0 to 10 where 0 means ''Very dissatisfied'' and 10 means ''Very satisfied,'' how do you feel about your life as a whole these days?

LIFESAT2 In general, how satisfied are you with your life? Would you say very satisfied, satisfied, dissatisfied, or very dissatisfied?

PHQ81 [If Mode=Phone, read: Over the last 2 weeks, how often have you been bothered by any of the following problems?] Little interest or pleasure in doing things [If Mode=Phone, read: Would you say not at all, several days, more than half the days, or nearly every day?]

PHQ82	[If Mode=Phone, read: Over the last 2 weeks, how often have you been bothered by any of the following problems?] Feeling down, depressed, or hopeless. [If Mode=Phone, read if necessary: Would you say not at all, several days, more than half the days, or nearly every day?]
PROBE_ANX	Which of the following statements, if any, describe any of your feelings of being nervous or anxious?
PROBE_GETCAR	How much of the care that [your provider/you/you and your provider] delayed or cancelled were eventually able to reschedule or receive?
PROBE_HES	Please list the reasons you say you [fill based on VAX_HES: are/are not] hesitant about vaccines in general
PROBE_LIFESAT	When you answered the previous question [FILL LIFESAT1 or LIFESAT2], what were you thinking about?
PROBE_NOCAR	Why do you say you were unable to get care because of the pandemic (select all that apply)?
PROBE_REL6	Why do you say that?
PROBE_TELMED	When answer the previous question about telephone or video appointments, were you thinking about whether or not …
PROBE_VAX	When thinking about your plan to [fill based on VAX_COVID: get/not get] a COVID-19 vaccine, which of the following, if any, were you thinking about?
REL1	In what religion were you raised, if any?
REL2	Which of these were you raised as, if any?
REL3	When you were 14, about how often did you usually attend religious services?
REL4	What religion are you now?
REL5	Which of these are you now, if any?
REL6	Currently, how important is religion in your daily life? Would you say it is very important, somewhat important, or not important?
REL7	About how often do you attend religious services?

VAX_COVID	Do you plan on getting a COVID-19 vaccine if and when one becomes available?
VAX_HERD	Do you believe that getting vaccinated helps protect others from getting disease?
VAX_HES	Overall, how hesitant about vaccines in general would you consider yourself to be?
VAX_KNOW	Has a doctor or other health professional ever told you that you have or likely have Coronavirus or COVID-19?
VAX_MD	Is your doctor or health provider your most trusted source of information about vaccines?
VAX_RISK	How confident are you that the benefits of vaccines outweigh their risks?
VAX_SIDE	Have concerns about serious, long-term side effects impacted your decision to get vaccinated in the past?
COVID_S6A	In the last week, did you socially distance when you were...
COVID_S6B	Did you do this activity inside, outside, or both?

COVID_S6C	When doing this activity, did you always wear a mask?
PROBE_DISTANCE	When you were answering about social distancing in the previous questions, what were you thinking about?
PROBE_MASKTYPE	When asked about wearing a mask in the previous question, which of the following, if any, were you thinking about?
PROBE_MASKUSE	Which of the following, if any, do you commonly see in your community?
COVID_S2	How important are the following reasons for social distancing during the COVID-19 pandemic? [Not at all important, a little important, somewhat important, very important]

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Crosswalk to other Surveys	Primary Use Category	Covariate for Estimates
NHIS Annual Core; Washington Group	Alignment	Yes
NHIS Annual Core; Washington Group	Alignment	Yes
NHIS Annual Core; Washington Group	Alignment	Yes
NHIS Annual Core; Washington Group	Alignment	
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NHIS Annual Core; Washington Group	Alignment	Yes
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NHIS Annual Core; Washington Group	Alignment	Yes
NHIS Annual Core; Washington Group	Alignment	
NHIS Annual Core	Alignment	
NHIS Annual Core; Washington Group	Alignment	
NHIS Annual Core	Alignment	Yes
NHIS Annual Core; Census' Pulse	Alignment	Yes
Used in RANDS 2 through RANDS during COVID-19 Round 2	Alignment	

NHIS Annual Core	Alignment	
NHIS Annual Core	Alignment	
NHIS Annual Core; Washington Group	Alignment	
NHIS Annual Core	Alignment	Yes
NHIS Annual Core; Washington Group	Alignment	
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
NHIS Annual Core	Calibration	Yes
New Question for this RANDS	Estimation	
New Question for this RANDS	Estimation	
New Question for this RANDS	Estimation	

CPS, Census Pulse Survey	Estimation
New Question for this RANDS	Estimation
New Question for this RANDS, Planned for NHIS	Estimation
New Question for this RANDS, Planned for NHIS	Estimation
New Question for this RANDS, Planned for NHIS	Estimation
New Question for this RANDS; Adapted from CCQDER-designed childhood vaccine hesitancy set for NIS	Measurement Research
NHIS Rotating Core	Measurement Research
NHIS Rotating Core	Measurement Research
New Question for this RANDS	Measurement Research
New Question for this RANDS	Measurement Research
NHIS Rotating Core	Measurement Research

NHIS Rotating Core	Measurement Research
Used in RANDS 3 through RANDS during COVID-19 Round 2	Measurement Research
New Question for this RANDS	Measurement Research
New Question for this RANDS	Measurement Research
New Question for this RANDS	Measurement Research
New Question for this RANDS	Measurement Research
National Survey of Family Growth	Measurement Research
New Question for this RANDS	Measurement Research
New Question for this RANDS	Measurement Research
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New Question for this RANDS; Adapted from CCQDER-designed childhood vaccine hesitancy set for NIS	Measurement Research
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Question being run by CDC's COVID response group on a web-only Porter Novelli survey. Question has not been previously tested or validated	Measurement Research
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Question being run by CDC's
COVID response group on a
web-only Porter Novelli survey.
 Question has not been
previously tested or validated   Measurement Research

New Question for this RANDS.   Measurement Research

New Question for this RANDS.   Measurement Research

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Question being run by CDC's
COVID response group on a
web-only Porter Novelli survey.
 Question has not been
previously tested or validated   Measurement Research

Question	Wording
COVID_NOWK	Were you unable to work because you or a family member was sick with the Coronavirus?
TELMED	In the last two months, has this provider offered you a telephone or video appointment
TELEMEDUSE	In the last two months, did you schedule and participate in a telephone or video appointment?
TELMEDNEW	Did this provider offer telephone or video appointments before the Coronavirus outbreak?
NOCARTYP	Were you unable to get any of the following types of care in the last two months?
COVIDNOCAR	[FILL: "Regarding your NOCARTYP"] Were you unable able to get this because of the Coronavirus epidemic?

Assumed Prevelence Before Rounds 1 and 2 Approval

Low (prop w/ as of today is about 0.35%, but multiplied by the average US HH size of 2.52 is .882%, multiplied by av

Low/Med (~18 %--about 90 % of ppl have access a usual place of care, and I saw pre-covid estimates that about 20%

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Unknown, but less than than the overall of covid_Care for each individual area

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Estimate round 1	Estimate round 2
0.9	1.1
36.6	37.1
24.2	24.3
14.1	14.1
48.4	38.1
38.7	28.2

Experimental estimates for the primary estimation variables below will be released. Because adul
defined by chronic conditions and and factors related to chronic conditions (e.g. insurance, age) w
primary experimental estimates for all adults and for smaller samples for subgroups.   CV of 30%
away from CV and are based on exact confidence intervals but were established to be consistent w
Beyond the subgroups shown in this table, other covariates indicated in the "Variables and Purpos

CV were calculated for the sample of all adults (n=6000) and for sample sizes 2500, 2000, 1500, 10
These expected sample sizes were based on RANDS 3 or NHIS.

CV were calculated assuming a design effect of 2. The average design effect for RANDS 3 was 1.8:
are estimates that would not have met the CV critieria for presention.

Table. Coefficients of Variation for primary estimation variables with varying expected prevaler

		Covariate subgroups (expected sample size based on RANDS 3)	Any health insurance (5700*)
			All adults, n=6000
Primary estimation variable	Actual Prevalence (Round 2)	Assumed prevalence	
COVID_NOWK	**1.10%**	1%	18.17
Variables with prevalence 10%		10%	5.48
TELMEDNEW	**14.10%**	15%	4.35
Variables with prevalence 20%		20%	3.65
TELEMEDUSE	**24.30%**	25%	3.16
COVIDNOCAR (OVERALL)	28.20%	30%	2.79
NOCARTYP (OVERALL)	**38.10%**	35%	2.49
TELMED	**37.10%**	35%	2.49

*based on NHIS, not fielded on RANDS 3

**https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf

lts with chronic condiditons may be affected more than the general population, estimates for selec
ill be presented, when available. The table below shows the expected coefficients of variation (CV
has been used as a threshold by NCHS for presentation criteria. Current NCHS presentation standa
with prior criteria. The current standards generally allow for more low prevalence estimates to be
ses" tab will be investigated as part of NCHS' evaluation of the data.

000, 750, and 500. Chronic disease subgroups that correspond to these sample sizes are identified

3. The average design effects for RANDS during COVID round 1 and 2 were 1.96 and 2.15, respectiv

nce by expected sample sizes according to covariates

Between 70% and 75% report one or more chronic condition		Hypertension (2224)	Age > 65 (1329)	Fair/poor health (992), Current smoking (928), Hispanic (946)
n=4000	n=2500	n=2000	n=1500	n=1000
		CV (DEFF=2)		
22.25	28.14	31.46	36.33	44.50
6.71	8.49	9.49	10.95	13.42
5.32	6.73	7.53	8.69	10.65
4.47	5.66	6.32	7.30	8.94
3.87	4.90	5.48	6.32	7.75
3.42	4.32	4.83	5.58	6.83
3.05	3.85	4.31	4.98	6.09
3.05	3.85	4.31	4.98	6.09

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rely. CV in RED

non-Hispanic black (619)	Diabetes (636), COPD (485), Cancer (561*)
n=750	n=500
51.38	62.93
15.49	18.97
12.29	15.06
10.33	12.65
8.94	10.95
7.89	9.66
7.04	8.62
7.04	8.62