

COVID-19 Symptom Survey contingency tables README

I. Overview

This documentation describes the contingency tables produced by grouping COVID-19 Symptom Survey individual responses by various self-reported demographic and other features of respondents.

These contingency tables provide granular breakdowns of survey responses such as vaccine uptake and acceptance. They are more detailed than the coarse aggregates reported in COVIDcast Epidata API and COVID-19 World Survey Open Data API, which are grouped by geographic region and provided on a daily basis. Individual response data for the surveys are available, but only to academic or nonprofit researchers who sign a Data Use Agreement, whereas these contingency tables are available to the general public.

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1. Available data

We currently provide data files at several levels of geographic and temporal aggregation. The reason for this is that **each file is filtered to only include estimates for a particular group if that group includes 100 or more responses**. Providing several levels of granularity allows us to provide coverage for a variety of use cases. For example, users who need the most up-to-date data or are interested in time series analysis should use the weekly files, while those who want to study groups with smaller sample sizes should use the monthly files. Because monthly aggregates include more responses, they have lower missingness when grouping by several features at a time.

The following levels of temporal and geographic aggregation are currently provided:

a. Time periods

- i. Weekly
Beginning on Sundays, a full epiweek (or [MMWR week](#), a standardized numbering of weeks throughout the year).
- ii. Monthly
Full calendar month.

b. Geographies

- i. US
 1. County
 2. State
 3. Country
- ii. Global
 1. Region (typically Admin 1-level)
 2. Country or territory

2. File formats

a. Naming

Each CSV is named as follows:

```
{period_start}_{period_end}_{period_type}_{geo_type}_{aggregation_type}.csv
```

Dates are of the form `yyyyMMdd`. `period_start` refers to the first day of the time period survey responses were aggregated over, in the Pacific time zone (UTC - 7). Unless noted otherwise, the time period is always a complete month (`period_type = 'monthly'`) or epiweek (`period_type = 'weekly'`). `geo_type` is the geographic level responses were aggregated over. `aggregation_type` is a concatenation of other grouping variables used in the aggregation. Values for variables used in file naming align with those within files as specified in the column section below.

b. Columns

Within a CSV, the first few columns are the grouping variables. If a particular grouping variable is not used in the aggregation, it will be missing (null). Each aggregated indicator reports three columns (unrounded):

- i. `val_<indicator name>`: the main value of interest, e.g., percent, average, or count, estimated using the survey weights
- ii. `se_<indicator name>`: the standard error of `val_<indicator name>`
- iii. `n_<indicator name>`: the number of survey responses used to calculate `val_<indicator name>`

Column name	Description	Type
survey_geo	Survey geography (US; global)	string
period_start	First day of time period	date (yyyyMMdd)
period_end	Last day of time period	date (yyyyMMdd)
period_val	Month or week number	integer
period_type	Time period type (weekly; monthly)	string
geo_type	Geography type (US: county; state; nation // Global: region; country)	string
aggregation_type	Additional aggregation type; alphabetized concatenation of grouping variables	string
country	Country name	string
ISO_3	Three-letter ISO country code	string
GID_0	GADM level 0 ID	string
region	Region (global only)	string
GADM_1	GADM level 1 ID	string
state	State name (US only)	string
state_fips	State FIPS code (US only)	string
county	County name (US only)	string
county_fips	County FIPS code (US only)	string
grouping_var1	Grouping variable 1	string, boolean, or float
...	Additional grouping variables	
grouping_varN	Grouping variable N	string, boolean, or float
val_indicator1	Value (e.g., percentage) of indicator 1 estimate	double
se_indicator1	Standard error of indicator 1 estimate	double
sample_size_indicator1	Sample size for indicator 1 estimate	double
represented_indicator1	Weighted sample size for indicator 1 estimate	double
...	Additional indicators	
issue_date	Date on which estimates were generated	date (yyyyMMdd)

c. Missing values

Grouping variables (including `region`) will contain an empty string to represent respondents who provided one or more responses to survey items used for indicators (e.g., vaccine uptake) but who did not provide a response to the survey item used for the particular grouping variable. For example, the below would be the format for estimates for 18-24 respondents in the following groups: males, females, and respondents who did not provide a response to the gender question.

```
age,gender,val_pct_vaccinated  
18-24, Male, 24.2  
18-24, Female, 27.4  
18-24,, 18.2
```

3. Definitions

a. Demographic & other grouping variables

Grouping variable	Description	Values
age	Age group, condensed (65-74 and 75+ groups combined for more coverage)	18-24 25-44 45-64 65+
age65plus	Age group, 65 plus (combined into two for more coverage)	Under 65 65 or older
agefull	Age group, full (as provided in survey response options)	18-24 25-34 35-44 45-54 55-64 65-74 75+
comorbidcancer	Comorbidity, cancer	TRUE FALSE
comorbiddiabetes	Comorbidity, diabetes	TRUE FALSE
comorbidheartdisease	Comorbidity, heart disease	TRUE FALSE
comorbidimmuno	Comorbidity, immunocompromised	TRUE FALSE
comorbidkidneydisease	Comorbidity, chronic kidney disease	TRUE FALSE
comorbidlungdisease	Comorbidity, chronic lung disease	TRUE FALSE
comorbidobese	Comorbidity, obesity	TRUE FALSE
edulevel	Education, level (US only)	LessThanHighSchool HighSchool SomeCollege FourYearDegree PostGraduate

Grouping variable	Description	Values
eduyears	Education, years of (global only)	0 1-6 7-12 13-15 16-30
eligible	Any vaccine-eligible conditions (cancer, chronic kidney disease, chronic lung disease, diabetes, heart disease, immunocompromised)	TRUE FALSE
eligiblepregsmokeobese	Any vaccine-eligible conditions with smoking, pregnancy, & obesity (cancer, chronic kidney disease, chronic lung disease, diabetes, heart disease, immunocompromised, obesity, pregnancy, smoking)	TRUE FALSE
gender	Gender	Male Female Other
healthcareworker	Healthcare worker	TRUE FALSE
hispanic	Hispanic	TRUE FALSE
industry	Industry (global only)	Agriculture BuyingSelling Construction Education Utilities Financial Health Manufacturing Mining PersonalServices Professional PublicAdministration Tourism Transportation Other

Grouping variable	Description	Values
occupation	Occupation (US only)	SocialService Education Arts ProtectiveService FoodService HealthcarePractitioner HealthcareSupport BuildingMaintenance PersonalCare Sales Office Construction Maintenance Production Transportation Other
pregnant	Pregnant	TRUE FALSE
race	Race (US only)	AmericanIndianAlaskaNative Asian BlackAfricanAmerican NativeHawaiianPacificIslander White MultipleOther
raceethnicity	Race / ethnicity (US only)	NonHispanicAmericanIndianAlaskaNative NonHispanicAsian NonHispanicBlackAfricanAmerican NonHispanicNativeHawaiianPacificIslander NonHispanicWhite NonHispanicMultipleOther Hispanic
smoker	Smoker	TRUE FALSE
urban	Urban	TRUE FALSE

Aggregation thresholds

As [previously mentioned](#), files are filtered to only include estimates for a particular group if that group includes 100 or more responses. Especially in the weekly aggregates, many of the state-level (US) or region-level (global) groups have been filtered out due to low sample size. In such cases, files which group estimates by a single demographic of interest (e.g., age) will likely provide more coverage.

Missing values

In addition to the above listed values, each grouping variable can contain an empty string to represent respondents who did not provide a response to a particular survey item. For example, rows which aggregate respondents who did not answer the age question will contain an empty string in the age column.

b. Indicators

The files contain weighted estimates of the value of interest (e.g., percentage) for respondents who fulfill one or several criteria (as [defined above](#)). Each row contains these estimates, as well as standard error and sample sizes, for the specified time period, geography, and demographic & other grouping variables.

We plan to expand this list of indicators in the future based on research and public health needs.

See table on following page for definitions.

Category	Indicator name	Description	Definition		Survey Item(s)		Available from	
			US	Global	US	Global	US	Global
Behaviors	wearing_mask_7d	Percentage of people who wore a mask most or all of the time while in public in the past 7 days	(C14a == 'most of the time' C14a == 'all of the time') / any C14a response	(C5 == 'most of the time' C5 == 'all of the time') / any C5 response	C14a	C5	2021-02-08	2021-01-06
CLI/ILI	cli	Percentage with COVID-like illness	B2 == 'fever' & (B2 == 'cough' B2 == 'shortness of breath' B2 == 'difficulty breathing') / any response to B2	B1 == 'fever' AND (B1 == 'cough' B1 == 'shortness of breath' B1 == 'difficulty breathing') / any response to B1	B2	B1	2021-01-06	2021-01-06
CLI/ILI	ili	Percentage with influenza-like illness	B2 == 'fever' & (B2 == 'cough' B2 == 'sore throat') / any response to B2	B1 == 'fever' & (B1 == 'cough' B1 == 'sore throat') / any response to B1	B2	B1	2021-01-06	2021-01-06
Contact	direct_contact	Percentage of respondents that have reported having had direct contact with people not staying with them.	respondent = someone who answered any of the four contact types # (responses to at least one contact type > 0) / # (responses to at least one contact type)	C1_m == 'yes' / any response to C1_m	C10	C1_m	2021-04-06	2021-01-06
Symptoms	anosmia	Percentage of respondents experiencing anosmia	B2 == 'loss of taste or smell' / any response to B2	B1_10 == 'yes' / any response to B1	B2	B1	2021-01-06	2021-01-06
Vaccines	vaccinated	Percentage vaccinated	V1 == 'yes' / any response to V1	V1 == 'yes' / any response to V1	V1	V1	2021-01-06	2021-01-06
Vaccines	received_2_vaccine_doses	Percentage receiving two doses	V2 == '2 doses' / any response to V2	V2 == '2 doses' / any response to V2	V2	V2	2021-01-06	2021-01-06
Vaccines	accept_vaccine	Percentage who would definitely or probably choose to get vaccinated	(V3 == 'yes, definitely' V3 == 'yes, probably') / any response to V3	(V3 == 'yes, definitely' V3 == 'yes, probably') / any response to V3	V3	V3	2021-01-06	2021-01-06
Vaccines	hesitant_vaccine	Percentage who would definitely or probably NOT choose to get vaccinated	(V3 == 'no, definitely not' V3 == 'no, probably not') / any response to V3	(V3 == 'no, definitely not' V3 == 'no, probably not') / any response to V3	V3	V3	2021-01-06	2021-01-06

Vaccines	vaccinated_or_accept	Percentage who have either already received a COVID vaccine or would definitely or probably choose to get vaccinated, if a vaccine were offered to them today.	(V1 == 'yes' (V3 == 'yes, definitely' V3 == 'yes, probably')) / any response to V1 V3	(V1 == 'yes' (V3 == 'yes, definitely' V3 == 'yes, probably')) / any response to V1 V3	V1, V3	V1, V3	2021-01-06	2021-01-06
Vaccines	accept_vaccine_defyes	Percentage who would definitely choose to get vaccinated	V3 == 'yes, definitely would' / any response to V3	V3 == 'yes, definitely would' / any response to V3	V3	V3	2021-01-06	2021-01-06
Vaccines	accept_vaccine_probyes	Percentage who would probably choose to get vaccinated	V3 == 'yes, probably would' / any response to V3	V3 == 'yes, probably would' / any response to V3	V3	V3	2021-01-06	2021-01-06
Vaccines	accept_vaccine_probno	Percentage would probably not choose to get vaccinated	V3 == 'no, probably would not' / any response to V3	V3 == 'no, probably would not' / any response to V3	V3	V3	2021-01-06	2021-01-06
Vaccines	accept_vaccine_defno	Percentage would definitely not choose to get vaccinated	V3 == 'no, definitely would not' / any response to V3	V3 == 'no, definitely would not' / any response to V3	V3	V3	2021-01-06	2021-01-06
Vaccines	vaccine_likely_friends	Percentage more likely to get vaccinated if recommended by friends & family	V4 == 'more likely friends & family' / any response to V4	V4 == 'more likely friends & family' / any response to V4	V4	V4	2021-01-06	2021-01-06
Vaccines	vaccine_likely_local_health	Percentage more likely to get vaccinated if recommended by local healthcare workers	V4 == 'more likely healthcare' / any response to V4	V4 == 'more likely healthcare' / any response to V4	V4	V4	2021-01-06	2021-01-06
Vaccines	vaccine_likely_who	Percentage more likely to get vaccinated if recommended by WHO	V4 == 'more likely WHO' / any response to V4	V4 == 'more likely WHO' / any response to V4	V4	V4	2021-01-06	2021-01-06
Vaccines	vaccine_likely_govt_health	Percentage more likely to get vaccinated if recommended by government health officials	V4 == 'more likely govt' / any response to V4	V4 == 'more likely govt' / any response to V4	V4	V4	2021-01-06	2021-01-06
Vaccines	vaccine_likely_politicians	Percentage more likely to get vaccinated if recommended by politicians	V4 == 'more likely politicians' / any response to V4	V4 == 'more likely politicians' / any response to V4	V4	V4	2021-01-06	2021-01-06
Vaccines	vaccine_likely_doctors	Percentage more likely to get vaccinated if recommended by doctors and other health professionals	V4 == 'more likely doctors' / any response V4	V4 == 'more likely doctors' / any response V4	V4	V4	2021-02-05	2021-02-05

Vaccines	worried_vaccine_sideeffects	Percentage very or moderately concerned about side effects	(V9 == 'very concerned' V9 == 'moderately concerned') / any response to V9	(V9 == 'very concerned' V9 == 'moderately concerned') / any response to V9	V9	V9	2021-01-13	2021-01-13
Vaccines	hesitant_worried_vaccine_sideeffects	Percentage very or moderately concerned about side effects among those who are hesitant	(V9 == 'very concerned' V9 == 'moderately concerned') & (V3 == 'no, probably not' V3 == 'no definitely not') / (any response to V9 & (V3 == 'no, probably not' V3 == 'no definitely not'))	(V9 == 'very concerned' V9 == 'moderately concerned') & (V3 == 'no, probably not' V3 == 'no definitely not') / (any response to V9 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V3, V9	V3, V9	2021-01-13	2021-01-13
Vaccines	hesitant_vaccine_likely_friends	Percentage more likely to get vaccinated if recommended by friends & family among those who are hesitant	V4 == 'more likely family & friends' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V4 == 'more likely family & friends' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V3, V4	V3, V4a	2021-01-06	2021-01-06
Vaccines	hesitant_vaccine_likely_local_health	Percentage more likely to get vaccinated if recommended by local healthcare workers among those who are hesitant	V4 == 'more likely healthcare workers' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V4 == 'more likely healthcare workers' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V3, V4	V3, V4a	2021-01-06	2021-01-06
Vaccines	hesitant_vaccine_likely_who	Percentage more likely to get vaccinated if recommended by WHO among those who are hesitant	V4 == 'more likely who' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V4 == 'more likely who' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V3, V4	V3, V4a	2021-01-06	2021-01-06
Vaccines	hesitant_vaccine_likely_govt	Percentage more likely to get vaccinated if recommended by government health officials among those who are hesitant	V4 == 'more likely government' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V4 == 'more likely government' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V3, V4	V3, V4a	2021-01-06	2021-01-06
Vaccines	hesitant_vaccine_likely_politicians	Percentage more likely to get vaccinated if recommended by politicians among those who are hesitant	V4 == 'more likely politicians' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V4 == 'more likely politicians' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V3, V4	V3, V4a	2021-01-06	2021-01-06
Vaccines	hesitant_vaccine_likely_doctors	Percentage more likely to get vaccinated if recommended by doctors and other health professionals among those who are hesitant	V4 == 'more likely doctors' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V4 == 'more likely doctors' / (any response to V4 & (V3 == 'no, probably not' V3 == 'no definitely not'))	V3, V4	V3, V4a	2021-02-05	2021-02-05

Vaccines	hesitant_barrier_sideeffects	Percentage of all hesitant respondents (who can't to V5 who are concerned about possible side effects of a COVID-19 vaccine	(V5b V5c == 'I am concerned about possible side effects of a COVID-19 vaccine.') / (any response to V5b V5c)	(V5a V5b == 'I am concerned about possible side effects of a COVID-19 vaccine.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_allergic	Percentage of all hesitant respondents to V5 who are concerned about having an allergic reaction to a COVID-19 vaccine	(V5b V5c == 'I am concerned about having an allergic reaction to a COVID-19 vaccine.') / (any response to V5b V5c)	NA	V5b, V5c	NA	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_ineffective	Percentage of all hesitant respondents to V5 who don't know if a COVID-19 vaccine will work	(V5b V5c == 'I don't know if a COVID-19 vaccine will work.') / (any response to V5b V5c)	(V5a V5b == 'I don't know if a COVID-19 vaccine will work.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_dontneed	Percentage of all hesitant respondents to V5 who don't believe they need a COVID-19 vaccine	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') / (any response to V5b V5c)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_dislike_vaccines	Percentage of all hesitant respondents to V5 who don't like vaccines	(V5b V5c == 'I don't like vaccines.') / (any response to V5b V5c)	(V5a V5b == 'I don't like vaccines.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_not_recommended	Percentage of all hesitant respondents to V5 whose doctors have not recommended it	(V5b V5c == 'My doctor has not recommended it.') / (any response to V5b V5c)	NA	V5b, V5c	NA	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_wait_safety	Percentage of all hesitant respondents to V5 who plan to wait and see if it is safe and may get it later	(V5b V5c == 'I plan to wait and see if it is safe and may get it later.') / (any response to V5b V5c)	(V5a V5b == 'I plan to wait and see if it is safe and may get it later.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_low_priority	Percentage of all hesitant respondents to V5 who think other people need it more than they do right now	(V5b V5c == 'I think other people need it more than I do right now.') / (any response to V5b V5c)	(V5a V5b == 'I think other people need it more than I do right now.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_cost	Percentage of all hesitant respondents to V5 who are concerned about the cost of a COVID-19 vaccine	(V5b V5c == 'I am concerned about the cost of a COVID-19 vaccine.') / (any response to V5b V5c)	(V5a V5b == 'I am concerned about the cost of a COVID-19 vaccine.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_religious	Percentage of all hesitant respondents to V5 who say a COVID-19 vaccine is against their religious beliefs	(V5b V5c == 'It is against my religious beliefs.') / (any response to V5b V5c)	(V5a V5b == 'It is against my religious beliefs.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06

Vaccines	hesitant_barrier_health_c ondition	Percentage of all hesitant respondents to V5 who have a health condition and are concerned about the safety of the vaccine for people with their condition	(V5b V5c == 'I have a health condition and am concerned about the safety of the vaccine for people with my condition.') / (any response to V5b V5c)	NA	V5b, V5c	NA	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_pregnant	Percentage of all hesitant respondents to V5 who are currently/planning to be pregnant and/or breastfeeding and do not want to get vaccinated at this time	(V5b V5c == 'I am currently/planning to be pregnant and/or breastfeeding and do not want to get vaccinated at this time.') / (any response to V5b V5c)	NA	V5b, V5c	NA	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_other	Percentage of all hesitant respondents to V5 who have a another barrier to choosing to get a COVID-19 vaccine	(V5b V5c == 'Other.') / (any response to V5b V5c)	(V5a V5b == 'Other.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	hesitant_dontneed_reaso n_had_covid	Percentage of all hesitant respondents to V5 AND V6 who have already had COVID-19	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I already had COVID-19.)/ (any response to V5b V5c & any response to V6)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I already had COVID-19.)/ (any response to V5a V5b & any response to V6)	V5b, V5c, V6	V5a, V5b, V6	2021-02-09	2021-02-06
Vaccines	hesitant_dontneed_reaso n_dont_spend_time	Percentage of all hesitant respondents to V5 AND V6 who do not spend time with any high-risk people	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I do not spend time with any high-risk people.)/ (any response to V5b V5c & any response to V6)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I do not spend time with any high-risk people.)/ (any response to V5a V5b & any response to V6)	V5b, V5c, V6	V5a, V5b, V6	2021-02-09	2021-02-06
Vaccines	hesitant_dontneed_reaso n_not_high_risk	Percentage of all hesitant respondents to V5 AND V6 who are not a member of a high-risk group	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I am not a member of a high-risk group.)/ (any response to V5b V5c & any response to V6)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I am not a member of a high-risk group.)/ (any response to V5a V5b & any response to V6)	V5b, V5c, V6	V5a, V5b, V6	2021-02-09	2021-02-06
Vaccines	hesitant_dontneed_reaso n_precautions	Percentage of all hesitant respondents to V5 AND V6 who plan to use masks or other precautions instead	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I plan to use masks or other precautions instead.)/ (any response to V5b V5c & any response to V6)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I plan to use masks or other precautions instead.)/ (any response to V5a V5b & any response to V6)	V5b, V5c, V6	V5a, V5b, V6	2021-02-09	2021-02-06

Vaccines	hesitant_dontneed_reason_not_serious	Percentage of all hesitant respondents to V5 AND V6 who don't believe COVID-19 is a serious illness	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't believe COVID-19 is a serious illness.)/ (any response to V5b V5c & any response to V6)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't believe COVID-19 is a serious illness.)/ (any response to V5a V5b & any response to V6)	V5b, V5c, V6	V5a, V5b, V6	2021-02-09	2021-02-06
Vaccines	hesitant_dontneed_reason_not_beneficial	Percentage of all hesitant respondents to V5 AND V6 who don't think vaccines are beneficial	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't think vaccines are beneficial.)/ (any response to V5b V5c & any response to V6)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't think vaccines are beneficial.)/ (any response to V5a V5b & any response to V6)	V5b, V5c, V6	V5a, V5b, V6	2021-02-09	2021-02-06
Vaccines	hesitant_dontneed_reason_other	Percentage of all hesitant respondents to V5 AND V6 who don't think believe they need a COVID-19 vaccine for another reason	(V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'Other.)/ (any response to V5b V5c & any response to V6)	(V5a V5b == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'Other.)/ (any response to V5a V5b & any response to V6)	V5b, V5c, V6	V5a, V5b, V6	2021-02-09	2021-02-06
Vaccines	barrier_sideeffects	Percentage of all respondents to V5a, V5b, and V5c who are concerned about possible side effects of a COVID-19 vaccine	(V5a V5b V5c == 'I am concerned about possible side effects of a COVID-19 vaccine.)/ (any response to V5a V5b V5c)	(V5a V5b V5c == 'I am concerned about possible side effects of a COVID-19 vaccine.)/ (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_allergic	Percentage of all respondents to V5a, V5b, and V5c who are concerned about having an allergic reaction to a COVID-19 vaccine	(V5a V5b V5c == 'I am concerned about having an allergic reaction to a COVID-19 vaccine.)/ (any response to V5a V5b V5c)	NA	V5a, V5b, V5c	NA	2021-02-09	2021-02-06
Vaccines	barrier_ineffective	Percentage of all respondents to V5a, V5b, and V5c who don't know if a COVID-19 vaccine will work	(V5a V5b V5c == 'I don't know if a COVID-19 vaccine will work.)/ (any response to V5a V5b V5c)	(V5a V5b V5c == 'I don't know if a COVID-19 vaccine will work.)/ (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_dontneed	Percentage of all respondents to V5a, V5b, and V5c who don't believe they need a COVID-19 vaccine	(V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.)/ (any response to V5a V5b V5c)	(V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.)/ (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_dislike_vaccines	Percentage of all respondents to V5a, V5b, and V5c who don't like vaccines	(V5a V5b V5c == 'I don't like vaccines.)/ (any response to V5a V5b V5c)	(V5a V5b V5c == 'I don't like vaccines.)/ (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_not_recommended	Percentage of all respondents to V5a, V5b, and V5c whose doctors have not recommended it	(V5a V5b V5c == 'My doctor has not recommended it.)/ (any response to V5a V5b V5c)	NA	V5a, V5b, V5c	NA	2021-02-09	2021-02-06

Vaccines	barrier_wait_safety	Percentage of all respondents to V5a, V5b, and V5c who plan to wait and see if it is safe and may get it later	(V5a V5b V5c == 'I plan to wait and see if it is safe and may get it later.') / (any response to V5a V5b V5c)	(V5a V5b V5c == 'I plan to wait and see if it is safe and may get it later.') / (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_low_priority	Percentage of all respondents to V5a, V5b, and V5c who think other people need it more than they do right now	(V5a V5b V5c == 'I think other people need it more than I do right now.') / (any response to V5a V5b V5c)	(# V5a, V5b, or V5c: "I think other people need it more than I do right now.") / (# V5a, V5b, or V5c any response)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_cost	Percentage of all respondents to V5a, V5b, and V5c who are concerned about the cost of a COVID-19 vaccine	(V5a V5b V5c == 'I am concerned about the cost of a COVID-19 vaccine.') / (any response to V5a V5b V5c)	(V5a V5b V5c == 'I am concerned about the cost of a COVID-19 vaccine.') / (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_distrust_vaccines	Percentage of all respondents to V5a, V5b, and V5c who don't trust COVID-19 vaccines	(V5a V5b V5c == 'I don't trust COVID-19 vaccines.') / (any response to V5a V5b V5c)	NA	V5a, V5b, V5c	NA	2021-02-09	2021-02-06
Vaccines	barrier_distrust_govt	Percentage of all respondents to V5a, V5b, and V5c who don't trust the government	(V5a V5b V5c == 'I don't trust the government.') / (any response to V5a V5b V5c)	(V5a V5b V5c == 'I don't trust the government.') / (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_religious	Percentage of all respondents to V5a, V5b, and V5c who say a COVID-19 vaccine is against their religious beliefs	(V5a V5b V5c == 'It is against my religious beliefs.') / (any response to V5a V5b V5c)	(V5a V5b V5c == 'It is against my religious beliefs.') / (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	barrier_health_condition	Percentage of all respondents to V5a, V5b, and V5c who have a health condition and are concerned about the safety of the vaccine for people with their condition	(V5b V5c == 'I have a health condition and am concerned about the safety of the vaccine for people with my condition.') / (any response to V5b V5c)	NA	V5a, V5b, V5c	NA	2021-02-09	2021-02-06
Vaccines	barrier_pregnant	Percentage of all respondents to V5a, V5b, and V5c who are currently/planning to be pregnant and/or breastfeeding and do not want to get vaccinated at this time	(V5b V5c == 'I am currently/planning to be pregnant and/or breastfeeding and do not want to get vaccinated at this time.') / (any response to V5b V5c)	NA	V5a, V5b, V5c	NA	2021-02-09	2021-02-06

Vaccines	barrier_other	Percentage of all respondents to V5a, V5b, and V5c who have a another barrier to choosing to get a COVID-19 vaccine	(V5a V5b V5c == 'Other.') / (any response to V5a V5b V5c)	(V5a V5b V5c == 'Other.') / (any response to V5a V5b V5c)	V5a, V5b, V5c	V5a, V5b, V5c	2021-02-09	2021-02-06
Vaccines	dontneed_reason_had_covid	Percentage of all respondents to (V5a, V5b, OR V5c) AND V6 who have already had COVID-19	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I already had COVID-19.))/ (any response to V5a V5b V5c & any response to V6)	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I already had COVID-19.))/ (any response to V5a V5b V5c & any response to V6)	V5a, V5b, V5c, V6	V5a, V5b, V5c, V6	2021-02-09	2021-02-06
Vaccines	dontneed_reason_dont_spend_time	Percentage of all respondents to (V5a, V5b, OR V5c) AND V6 who do not spend time with any high-risk people	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I do not spend time with any high-risk people.))/ (any response to V5a V5b V5c & any response to V6)	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I do not spend time with any high-risk people.))/ (any response to V5a V5b V5c & any response to V6)	V5a, V5b, V5c, V6	V5a, V5b, V5c, V6	2021-02-09	2021-02-06
Vaccines	dontneed_reason_not_high_risk	Percentage of all respondents to (V5a, V5b, OR V5c) AND V6 who are not a member of a high-risk group	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I am not a member of a high-risk group.))/ (any response to V5a V5b V5c & any response to V6)	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I am not a member of a high-risk group.))/ (any response to V5a V5b V5c & any response to V6)	V5a, V5b, V5c, V6	V5a, V5b, V5c, V6	2021-02-09	2021-02-06
Vaccines	dontneed_reason_precautions	Percentage of all respondents to (V5a, V5b, OR V5c) AND V6 who plan to use masks or other precautions instead	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I plan to use masks or other precautions instead.))/ (any response to V5a V5b V5c & any response to V6)	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I plan to use masks or other precautions instead.))/ (any response to V5a V5b V5c & any response to V6)	V5a, V5b, V5c, V6	V5a, V5b, V5c, V6	2021-02-09	2021-02-06
Vaccines	dontneed_reason_not_serious	Percentage of all respondents to (V5a, V5b, OR V5c) AND V6 who don't believe COVID-19 is a serious illness	((V5a, V5b, or V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't believe COVID-19 is a serious illness.))/ (any response to V5a V5b V5c & any response to V6)	((V5a, V5b, or V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't believe COVID-19 is a serious illness.))/ (any response to V5a V5b V5c & any response to V6)	V5a, V5b, V5c, V6	V5a, V5b, V5c, V6	2021-02-09	2021-02-06
Vaccines	dontneed_reason_not_beneficial	Percentage of all respondents to (V5a, V5b, OR V5c) AND V6 who don't think vaccines are beneficial	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't think vaccines are beneficial.))/ (any response to V5a V5b V5c & any response to V6)	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't think vaccines are beneficial.))/ (any response to V5a V5b V5c & any response to V6)	V5a, V5b, V5c, V6	V5a, V5b, V5c, V6	2021-02-09	2021-02-06

Vaccines	dontneed_reason_other	Percentage of all respondents to (V5a, V5b, OR V5c) AND V6 who don't think believe they need a COVID-19 vaccine for another reason	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'Other.')) / (any response to V5a V5b V5c & any response to V6)	((V5a V5b V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'Other.')) / (any response to V5a V5b V5c & any response to V6)	V5a, V5b, V5c, V6	V5a, V5b, V5c, V6	2021-02-09	2021-02-06
Vaccines	hesitant_barrier_distrust_govt	Percentage of all hesitant respondents to V5 who don't trust the government	(V5b V5c == 'I don't trust the government.') / (any response to V5b V5c)	(V5a V5b == 'I don't trust the government.') / (any response to V5a V5b)	V5b, V5c	V5a, V5b	2021-02-09	2021-02-06
Vaccines	defno_barrier_sideeffects	Percentage of respondents who would definitely not choose to get vaccinated and who are concerned about possible side effects of a COVID-19 vaccine	(V5c == 'I am concerned about possible side effects of a COVID-19 vaccine.') / (any response to V5c)	(V5a == 'I am concerned about possible side effects of a COVID-19 vaccine.') / (any response to V5a)	V5c	V5a	2021-02-09	2021-02-06
Vaccines	defno_barrier_allergic	Percentage of respondents who would definitely not choose to get vaccinated AND who are concerned about having an allergic reaction to a COVID-19 vaccine	(V5c == 'I am concerned about having an allergic reaction to a COVID-19 vaccine.') / (any response to V5c)	NA	V5c	NA	2021-02-09	2021-02-06
Vaccines	defno_barrier_ineffective	Percentage of respondents who would definitely not choose to get vaccinated AND who don't know if a COVID-19 vaccine will work	(V5c == 'I don't know if a COVID-19 vaccine will work.') / (any response to V5c)	(V5a == 'I don't know if a COVID-19 vaccine will work.') / (any response to V5a)	V5c	V5a	2021-02-09	2021-02-06
Vaccines	defno_barrier_dontneed	Percentage of respondents who would definitely not choose to get vaccinated AND who don't believe they need a COVID-19 vaccine	(V5c == 'I don't believe I need a COVID-19 vaccine.') / (any response to V5c)	(V5a == 'I don't believe I need a COVID-19 vaccine.') / (any response to V5a)	V5c	V5a	2021-02-09	2021-02-06
Vaccines	defno_barrier_dislike_vaccines	Percentage of respondents who would definitely not choose to get vaccinated AND who don't like vaccines	(V5c == 'I don't like vaccines.') / (any response to V5c)	(V5a == 'I don't like vaccines.') / (any response to V5a)	V5c	V5a	2021-02-09	2021-02-06
Vaccines	defno_barrier_not_recommended	Percentage of respondents who would definitely not choose to get vaccinated AND whose doctors have not recommended it	(V5c == 'My doctor has not recommended it.') / (any response to V5c)	NA	V5c	NA	2021-02-09	2021-02-06
Vaccines	defno_barrier_wait_safety	Percentage of respondents who would definitely not choose to get vaccinated AND who plan to wait and see if it is safe and may get it later	(V5c == 'I plan to wait and see if it is safe and may get it later.') / (any response to V5c)	(V5a == 'I plan to wait and see if it is safe and may get it later.') / (any response to V5a)	V5c	V5a	2021-02-09	2021-02-06

Vaccines	defno_barrier_low_priority	Percentage of respondents who would definitely not choose to get vaccinated AND who think other people need it more than they do right now	(V5c == 'I think other people need it more than I do right now.')	(V5a == 'I think other people need it more than I do right now.')	V5c	V5a	2021-02-09	2021-02-06
Vaccines	defno_barrier_cost	Percentage of respondents who would definitely not choose to get vaccinated AND who are concerned about the cost of a COVID-19 vaccine	(V5c == 'I am concerned about the cost of a COVID-19 vaccine.')	(V5a == 'I am concerned about the cost of a COVID-19 vaccine.')	V5c	V5a	2021-02-09	2021-02-06
Vaccines	defno_barrier_distrust_vaccines	Percentage of respondents who would definitely not choose to get vaccinated AND who don't trust COVID-19 vaccines	(V5c == 'I don't trust COVID-19 vaccines.')	NA	V5c	NA	2021-02-09	2021-02-06
Vaccines	defno_barrier_distrust_govt	Percentage of respondents who would definitely not choose to get vaccinated AND who don't trust the government	(V5c == 'I don't trust the government.')	NA	V5c	NA	2021-02-09	2021-02-06
Vaccines	defno_barrier_religious	Percentage of respondents who would definitely not choose to get vaccinated AND who say a COVID-19 vaccine is against their religious beliefs	(V5c == 'It is against my religious beliefs.')	(V5a == 'It is against my religious beliefs.')	V5c	V5a	2021-02-09	2021-02-06
Vaccines	defno_barrier_health_condition	Percentage of respondents who would definitely not choose to get vaccinated AND who have a health condition and are concerned about the safety of the vaccine for people with their condition	(V5c == 'I have a health condition and am concerned about the safety of the vaccine for people with my condition.')	NA	V5c	NA	2021-02-09	2021-02-06
Vaccines	defno_barrier_pregnant	Percentage of respondents who would definitely not choose to get vaccinated AND who are currently/planning to be pregnant and/or breastfeeding and do not want to get vaccinated at this time	(V5c == 'I am currently/planning to be pregnant and/or breastfeeding and do not want to get vaccinated at this time.')	NA	V5c	NA	2021-02-09	2021-02-06
Vaccines	defno_barrier_other	Percentage of respondents who would definitely not choose to get vaccinated AND V6 who have a another barrier to choosing to get a COVID-19 vaccine	(V5c == 'Other.')	(V5a == 'Other.')	V5c	V5a	2021-02-09	2021-02-06

Vaccines	defno_dontneed_reason_had_covid	Percentage of respondents who would definitely not choose to get vaccinated who responded to V5c AND V6 who have already had COVID-19	((V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I already had COVID-19.')) / (any response to V5c & any response to V6)	((V5a == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I already had COVID-19.')) / (any response to V5a & any response to V6)	V5c, V6	V5a, V6	2021-02-09	2021-02-06
Vaccines	defno_dontneed_reason_dont_spend_time	Percentage of respondents who would definitely not choose to get vaccinated who responded to V5c AND V6 who do not spend time with any high-risk people	((V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I do not spend time with any high-risk people.')) / (any response to V5c & any response to V6)	((V5a == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I do not spend time with any high-risk people.')) / (any response to V5a & any response to V6)	V5c, V6	V5a, V6	2021-02-09	2021-02-06
Vaccines	defno_dontneed_reason_not_high_risk	Percentage of respondents who would definitely not choose to get vaccinated who responded to V5c AND V6 who are not a member of a high-risk group	((V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I am not a member of a high-risk group.')) / (any response to V5c & any response to V6)	((V5a == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I am not a member of a high-risk group.')) / (any response to V5a & any response to V6)	V5c, V6	V5a, V6	2021-02-09	2021-02-06
Vaccines	defno_dontneed_reason_precautions	Percentage of respondents who would definitely not choose to get vaccinated who responded to V5c AND V6 who plan to use masks or other precautions instead	((V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I plan to use masks or other precautions instead.')) / (any response to V5c & any response to V6)	((V5a == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I plan to use masks or other precautions instead.')) / (any response to V5a & any response to V6)	V5c, V6	V5a, V6	2021-02-09	2021-02-06
Vaccines	defno_dontneed_reason_not_serious	Percentage of respondents who would definitely not choose to get vaccinated who responded to V5c AND V6 who don't believe COVID-19 is a serious illness	((V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't believe COVID-19 is a serious illness.')) / (any response to V5c & any response to V6)	((V5a == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't believe COVID-19 is a serious illness.')) / (any response to V5a & any response to V6)	V5c, V6	V5a, V6	2021-02-09	2021-02-06
Vaccines	defno_dontneed_reason_not_beneficial	Percentage of respondents who would definitely not choose to get vaccinated who responded to V5c AND V6 who don't think vaccines are beneficial	((V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't think vaccines are beneficial.')) / (any response to V5c & any response to V6)	((V5a == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'I don't think vaccines are beneficial.')) / (any response to V5a & any response to V6)	V5c, V6	V5a, V6	2021-02-09	2021-02-06
Vaccines	defno_dontneed_reason_other	Percentage of respondents who would definitely not choose to get vaccinated who responded to V5c AND V6 who don't think believe they need a COVID-19 vaccine for another reason	((V5c == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'Other')) / (V5c == any response & V6 == any response)	((V5a == 'I don't believe I need a COVID-19 vaccine.') & (V6 == 'Other')) / (V5a == any response & V6 == any response)	V5c, V6	V5a, V6	2021-02-09	2021-02-06

Vaccines	informed_access	Percentage of respondents who are very or moderately informed about how to get a vaccination	V13 == 'very informed' V13 == 'moderately informed' / any response to V13	V13 == 'very informed' V13 == 'moderately informed' / any response to V13	V13	V13	2021-03-02	2021-03-02
Vaccines	appointment_have	Percentage of people who have an appointment to get a COVID-19 vaccine conditional on being accepting	V11 = 'yes' / any response to V11	V15 == 'yes' / any response to V15	V11	V15	2021-03-02	2021-03-02
Vaccines	appointment_tried	Percentage of people without an appointment who have tried to get one conditional on being accepting	V12 == 'yes' / any response to V12	V16 == 'yes' / any response to V16	V12	V16	2021-03-02	2021-03-02
Vaccines	appointment_or_accept_vaccine	Percentage who have an appointment or would definitely or probably choose to get vaccinated	(V11a == 'yes' (V3a == 'yes, definitely' V3a == 'yes, probably')) / (any response to V3a V11a == 'yes')	(V15a == 'yes' (V3a == 'yes, definitely' V3a == 'yes, probably')) / (any response to V3a V15a == 'yes')	V3a, V11a	V3a, V15a	2021-05-20	2021-05-20
Vaccines	vaccinated_appointment_or_accept	Percentage of who have either already received a COVID vaccine, have an appointment, or would definitely or probably choose to get vaccinated	(V1 == 'yes' (V3a == 'yes, definitely' V3a == 'yes, probably') V11a == 'yes') / (any response to V3a V1 == 'yes' V11a == 'yes')	(V1 == 'yes' (V3a == 'yes, definitely' V3a == 'yes, probably') V15a == 'yes') / (any response to V3a V1 == 'yes' V15a == 'yes')	V1, V3a, V11a	V1, V3a, V15a	2021-05-20	2021-05-20
Vaccines	accept_vaccine_no_appointment_defyes	Percentage who would definitely choose to get vaccinated but who do not have an appointment	V3a == 'yes, definitely would' / any response to V3a	V3a == 'yes, definitely would' / any response to V3a	V3a	V3a	2021-05-20	2021-05-20
Vaccines	accept_vaccine_no_appointment_probyes	Percentage who would probably choose to get vaccinated and who do not have an appointment	V3a == 'yes, probably would' / any response to V3a	V3a == 'yes, probably would' / any response to V3a	V3a	V3a	2021-05-20	2021-05-20
Vaccines	accept_vaccine_no_appointment_probno	Percentage who would probably not choose to get vaccinated and who do not have an appointment	V3a == 'no, probably would not' / any response to V3a	V3a == 'no, probably would not' / any response to V3a	V3a	V3a	2021-05-20	2021-05-20
Vaccines	accept_vaccine_no_appointment_defno	Percentage who would definitely not choose to get vaccinated and who do not have an appointment	V3a == 'no, definitely would not' / any response to V3a	V3a == 'no, definitely would not' / any response to V3a	V3a	V3a	2021-05-20	2021-05-20
Vaccines	trust_covid_info_doctors	Percentage of people who trust COVID info from local health works, clinics, and community organizations	I6_1 == 'trust' / any response to I6	I6_1 == 'trust' / any response to I6	I6_1	I6_1	2021-05-20	2021-05-20

Vaccines	trust_covid_info_experts	Percentage of people who trust COVID info from scientists and other health experts	I6_2 == 'trust' / any response to I6	I6_2 == 'trust' / any response to I6	I6_2	I6_2	2021-05-20	2021-05-20
Vaccines	trust_covid_info_cdc	Percentage of people who trust COVID info from the Centers for Disease Control	I6_3 == 'trust' / any response to I6	NA	I6_3	--	2021-05-20	2021-05-20
Vaccines	trust_covid_info_who	Percentage of people who trust COVID info from the World Health Organization	NA	I6_3 == 'trust' / any response to I6	---	I6_3	2021-05-20	2021-05-20
Vaccines	trust_covid_info_govt_health	Percentage of people who trust COVID info from government health authorities	I6_4 == 'trust' / any response to I6	I6_4 == 'trust' / any response to I6	I6_4	I6_4	2021-05-20	2021-05-20
Vaccines	trust_covid_info_politicians	Percentage of people who trust COVID info from politicians	I6_5 == 'trust' / any response to I6	I6_5 == 'trust' / any response to I6	I6_5	I6_5	2021-05-20	2021-05-20
Vaccines	trust_covid_info_journalists	Percentage of people who trust COVID info from journalists	I6_6 == 'trust' / any response to I6	I6_6 == 'trust' / any response to I6	I6_6	I6_6	2021-05-20	2021-05-20
Vaccines	trust_covid_info_friends	Percentage of people who trust COVID info from friends and family	I6_7 == 'trust' / any response to I6	I6_7 == 'trust' / any response to I6	I6_7	I6_7	2021-05-20	2021-05-20
Vaccines	trust_covid_info_religious	Percentage of people who trust COVID info from religious leaders	I6_8 == 'trust' / any response to I6	I6_8 == 'trust' / any response to I6	I6_8	I6_8	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_doctors	Percentage of people who trust COVID info from local health works, clinics, and community organizations among those who are hesitant	I6_1 == 'trust doctors' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	I6_1 == 'trust doctors' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	V3a, I6_1	V3a, I6_1	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_experts	Percentage of people who trust COVID info from scientists and other health experts among those who are hesitant	I6_1 == 'trust experts' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	I6_1 == 'trust experts' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	V3a, I6_2	V3a, I6_2	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_cdc	Percentage of people who trust COVID info from the Centers for Disease Control among those who are hesitant	I6_1 == 'trust CDC' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	NA	V3a, I6_3	--	2021-05-20	2021-05-20

Vaccines	hesitant_trust_covid_info_who	Percentage of people who trust COVID info from the World Health Organization among those who are hesitant	NA	I6_1 == 'trust WHO' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	--	V3a, I6_3	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_govt_health	Percentage of people who trust COVID info from government health authorities among those who are hesitant	I6_1 == 'trust government health authorities' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	I6_1 == 'trust government health authorities' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	V3a, I6_4	V3a, I6_4	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_politicians	Percentage of people who trust COVID info from politicians among those who are hesitant	I6_1 == 'trust politicians' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	I6_1 == 'trust politicians' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	V3a, I6_5	V3a, I6_5	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_journalists	Percentage of people who trust COVID info from journalists among those who are hesitant	I6_1 == 'trust journalists' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	I6_1 == 'trust journalists' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	V3a, I6_6	V3a, I6_6	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_friends	Percentage of people who trust COVID info from friends and family among those who are hesitant	I6_1 == 'trust friends and family' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	I6_1 == 'trust friends and family' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	V3a, I6_7	V3a, I6_7	2021-05-20	2021-05-20
Vaccines	hesitant_trust_covid_info_religious	Percentage of people who trust COVID info from religious leaders among those who are hesitant	I6_1 == 'trust religious leaders' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	I6_1 == 'trust religious leaders' / (any response to I6 & (V3a == 'no, probably not' V3a == 'no, definitely not'))	V3a, I6_8	V3a, I6_8	2021-05-20	2021-05-20
Vaccines	appointment_have_not_vaccinated	Percentage of people who have an appointment to get vaccinated conditional on not being vaccinated.	V11a == 'yes' / (V1 == 'no' & any response to V11a)	V15a == 'yes' / (V1 == 'no' & any response to V15a)	V1, V11a	V1, V15a	2021-05-20	2021-05-20
Vaccines	vaccine_tried	Percentage of people without an appointment who have tried to get a vaccine conditional on being accepting	V12a == 'yes' / (any response to V12a & (V3a == 'yes, definitely' V3a == 'yes, probably'))	V16a == 'yes' / (any response to V16a & (V3a == 'yes, definitely' V3a == 'yes, probably'))	V3a, V12a	V3a, V16a	2021-05-20	2021-05-20

4. Release notes

v1.0

Planned updates

- Addition of indicators for historical and current survey items not already included in tables.

v0.4

Release date

2021-06-02

Overview

Available for the global survey currently; replaces v0.1. Includes more additional demographic breakouts and new survey indicators. Reformats grouping variable names and values to align format of US and global files.

Changes

- Added education and occupation/industry demographic grouping variables:
 - Education, level (US): `edulevel`
 - Education, years of (global): `eduyears`
 - Industry (global): `industry`
 - Occupation (US): `occupation`
- Added additional pregnancy demographic breakouts:
 - Pregnant x raceethnicity (US): `pregnant_raceethnicity`
 - Pregnant x race x Hispanic (US): `hispanic_pregnant_race`
 - Pregnant x urban (global): `pregnant_urban`

v0.3

Release date

2021-05-10

Overview

Available for the global survey currently; replaces v0.1. Includes more additional demographic breakouts and new survey indicators. Reformats grouping variable names and values to align format of US and global files.

Changes

- Added education and occupation/industry demographic grouping variables:
 - Education, level (US): `edulevel`
 - Education, years of (global): `eduyears`
 - Industry (global): `industry`
 - Occupation (US): `occupation`

- Added additional pregnancy demographic breakouts:
 - Pregnant x raceethnicity (US): `pregnant_raceethnicity`
 - Pregnant x race x Hispanic (US): `hispanic_pregnant_race`
 - Pregnant x urban (global): `pregnant_urban`

v0.2

Release date

2021-04-20

Overview

Available for the global survey currently; replaces v0.1. Will be available for the US survey in the near future and replace v0.0. Includes more additional demographic breakouts and new survey indicators. Reformats grouping variable names and values to align format of US and global files.

Changes

- Added education and occupation/industry demographic grouping variables:
 - Education, level (US): `edulevel`
 - Education, years of (global): `eduyears`
 - Industry (global): `industry`
 - Occupation (US): `occupation`

- Added additional pregnancy demographic breakouts:
 - Pregnant x raceethnicity (US): `pregnant_raceethnicity`
 - Pregnant x race x Hispanic (US): `hispanic_pregnant_race`
 - Pregnant x urban (global): `pregnant_urban`

- Added vaccination appointments, vaccination informedness, direct contact and anosmia indicators:
 - Direct contact: `direct_contact`
 - Anosmia: `anosmia`
 - Informedness about access: `informed_access`
 - Have an appointment to get a vaccination: `appointment_have`
 - Tried to get an appointment to get a vaccination: `appointment_tried`

- Removed unused grouping variable columns from individual files (e.g., for an age contingency table, the `gender` column is not included) and alphabetized grouping columns.
- Concatenated grouping variables in alphabetical order to form `aggregation_type`.
- Renamed grouping variables (see below).
- Renamed `ds` to `issue_date`.
- Changed percentage indicator values to range from 0 to 100 (formerly 0 to 1).
- Converted binary grouping variables (e.g., healthcare workers) from string to boolean.
- Formatted string grouping variables with upper camelcase.

Renamed grouping variables

v0.1 grouping variable name	v0.2 grouping variable name
ethnicity	hispanic
raceeth	raceethnicity
urbanicity	urban
hcw	healthcareworker
eligible2	eligiblepregsmokeobese
comorbidhd	comorbidheartdisease
comorbidckd	comorbidkidneydisease
comorbidcld	comorbidlungdisease

v0.1

Release date

2021-04-12

Overview

Available only for the global survey; replaces v0.0. Includes more granular demographic breakouts and additional vaccine-related indicators.

Changes

- Additional combinations of demographic breakouts for: age; gender; urbanicity; healthcare workers.
- Addition of demographic breakouts for vaccine-eligible conditions / comorbidities.
- Updated implementation of `hesitant_concerned_sideeffects` and `hesitant_vaccinated_likely_...` indicators (see details below).
- Renamed indicator variables (see details below).

Updated indicator definitions

To align the US and global datasets, the following indicators were updated in the global data in v0.1:

v0.0 indicator	v0.0 definition	v0.1 indicator	v0.1 definition
hesitant_concerned_sideeffects	# (V9: very concerned OR moderately concerned) AND (V3: no, probably not OR no definitely not) / # (V9 responses)	hesitant_worried_vaccine_sideeffects	# (V9: very concerned OR moderately concerned) AND (V3: no, probably not OR no definitely not)/# (V9 response AND (V3: no, probably not OR no definitely not))
hesitant_vaccinated_likely_fam	# (V4: more likely family & friends) / # (any V4 response)	hesitant_vaccine_likely_friends	# (V4: more likely family & friends) / # (V4 response AND (V3: no, probably not OR no definitely not))
hesitant_vaccinated_likely_healthcare	# (V4: more likely healthcare workers) / (# any V4 response)	hesitant_vaccine_likely_local_health	# (V4: more likely healthcare workers) / (# V4 response AND (V3: no, probably not OR no definitely not))
hesitant_vaccinated_likely_who	# (V4: more likely who) / # (any V4 response)	hesitant_vaccine_likely_who	# (V4: more likely who) / # (V4 response AND (V3: no, probably not OR no definitely not))
hesitant_vaccinated_likely_govt	# (V4: more likely government) / # (any V4 response)	hesitant_vaccine_likely_govt	# (V4: more likely government) / # (V4 response AND (V3: no, probably not OR no definitely not))
hesitant_vaccinated_likely_politicians	# (V4: more likely politicians) / # (any V4 response)	hesitant_vaccine_likely_politicians	# (V4: more likely politicians) / # (V4 response AND (V3: no, probably not OR no definitely not))
hesitant_vaccinated_likely_doctors	# (V4: more likely doctors) / # (any V4 response)	hesitant_vaccine_likely_doctors	# (V4: more likely doctors) / # (V4 response AND (V3: no, probably not OR no definitely not))

The global estimates for the v0.0 indicators represent the percentage of respondents who are both vaccine hesitant and more likely to be vaccinated if given a recommendation among ALL respondents to those survey items. These estimates have been updated to reflect the percentage of respondents who are more likely to be vaccinated among ONLY among those who are hesitant, which will align with the US implementation.

Renamed indicators

v0.0 indicator name	v0.1 indicator name
accepting	accept_vaccine
hesitant	hesitant_vaccine
accepting_yes_definitely	accept_vaccine_defyes
accepting_yes_probably	accept_vaccine_probyes
accepting_no_probably	accept_vaccine_probno
accepting_no_definitely	accept_vaccine_defno
vaccinated_likely_friends	vaccine_likely_friends
vaccinated_likely_hcw	vaccine_likely_local_health
vaccinated_likely_who	vaccine_likely_who
vaccinated_likely_govt	vaccine_likely_govt_health
vaccinated_likely_politicians	vaccine_likely_politicians
vaccinated_likely_doctors	vaccine_likely_doctors
concerned_sideeffects	worried_vaccine_sideeffects
hesitant_concerned_sideeffects	hesitant_worried_vaccine_sideeffects
hesitant_vaccinated_likely_fam	hesitant_vaccine_likely_friends
hesitant_vaccinated_likely_healthcare	hesitant_vaccine_likely_local_health
hesitant_vaccinated_likely_who	hesitant_vaccine_likely_who
hesitant_vaccinated_likely_govt	hesitant_vaccine_likely_govt
hesitant_vaccinated_likely_politicians	hesitant_vaccine_likely_politicians
hesitant_barrier_dontlike	hesitant_barrier_dislike_vaccines
hesitant_barrier_notrec	hesitant_barrier_not_recommended
hesitant_barrier_wait	hesitant_barrier_wait_safety
hesitant_barrier_otherpeople	hesitant_barrier_low_priority
hesitant_barrier_trustvax	hesitant_barrier_distrust_vaccines
hesitant_barrier_religion	hesitant_barrier_religious
hesitant_barrier_health	hesitant_barrier_health_condition
hesitant_barrier_dontneed_alreadyhad	hesitant_dontneed_reason_had_covid
hesitant_barrier_dontneed_dontspendtime	hesitant_dontneed_reason_dont_spend_time
hesitant_barrier_dontneed_nothighrisk	hesitant_dontneed_reason_not_high_risk

hesitant_barrier_dontneed_precautions	hesitant_dontneed_reason_precautions
hesitant_barrier_dontneed_notserious	hesitant_dontneed_reason_not_serious
hesitant_barrier_dontneed_notbeneficial	hesitant_dontneed_reason_not_beneficial
hesitant_barrier_dontneed_other	hesitant_dontneed_reason_other

v0.0

Release date

2021-03-25

Overview

Initial release of contingency tables for the US and global surveys, focused on basic demographic breakouts and vaccine-related indicators.

Global data

- Files available [here](#).
- Demographic breakouts include various combinations of: age; gender; urbanicity; healthcare workers.
- Indicator variables include a variety of uptake and acceptance measures; hesitancy reasons; likelihood of getting a vaccine based on recommendations from various sources; concern about side effects.

US data

- Documentation and files available [here](#).
- Demographic breakouts include various combinations of: age; gender; race; ethnicity; vaccine-eligible conditions / comorbidities; healthcare workers.
- Indicator variables include a variety of uptake and acceptance measures; hesitancy reasons; likelihood of getting a vaccine based on recommendations from various sources; concern about side effects; CLI; ILI.