Statistical Analysis Plan *Last Updated: 30 APRIL 2022*

EPM (DCRI Only): 8341 – RADx-UP You and Me COVID Free

NCT05212883

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Table of Contents

Background

The proposed project is a public health intervention with an ecological analysis component. The purpose of this public health intervention, You & Me COVID-Free (YMCF), is to mitigate the community transmission of SARS-CoV-2. This intervention contains two components. One component will be to provide thousands of households in Merced, California the opportunity to test their members frequently at home. The other component will be to promote testing and vaccination awareness and access via community-engaged strategies. CDC, NIH, and academic partners are collaborating on this public health intervention with state and local health departments, as well as community partners, to evaluate the community rollout of frequent at-home testing and the promotion of testing and vaccination awareness and access.

This study will be conducted as a non-randomized ecologic study design to assess the impact of at-home testing interventions and the promotion of vaccination in reducing community transmission in Merced County, CA. We chose Merced County based on several criteria: a) size of the population; b) proportion of Hispanic/Latino/Latinx population; c) established partnerships with the RADx-UP program and the NIH Community Engagement Alliance (CEAL); d) ongoing connection to the local health department; e) county vaccination rates; f) and county Pandemic Vulnerability Index (PVI) score. In this community, 400,000 rapid home tests obtained by the NIH have been distributed in 200,000 kits to community households. Test distribution started on Thursday, November 18, 2021, and the distribution was completed on January 22, 2022.

This cohort sub-study in a subset of the population will explore human factors in response to testing and vaccination. Participants in the public health intervention who meet eligibility criteria will be invited to participate in the sub-study, consented, and asked to complete questionnaires aimed at evaluating self-reported health conditions, COVID-19 testing and symptoms, social interactions, knowledge of prevention strategies, infection risk, and attitudes towards vaccines. This sub-study will provide participant-level information essential to understand COVID-19 testing and vaccination awareness and access and relevant for implementation of public health interventions in future pandemics.

Further details of the background and the design of the study can be found in the study proposal.

Specific Analysis Aims

1. Characterize self-reported COVID-19 testing and symptoms.
2. Delineate attitudes towards SARS CoV-2 vaccination.
3. Describe infection risk in work place.
4. Explore the relationship between sociodemographic factors, i.e., age, race, ethnicity, and preferred language, and
    a. reasons for test use,
    b. test result,
    c. current vaccination status,
    d. likelihood of future vaccination,
    e. perspective on easiest way to obtain free oral COVID medicines.
5. Explore the relationship between social determinants of health, i.e., gender identity, employment, food/water/housing insecurity, health insurance, and COVID-19 challenges, and
    a. testing attitude (i.e., Participant thinks it is easy to get tested for COVID-19)
    b. testing behavior (i.e., Participant has been tested for COVID-19)

Study Population

The study population will consist of people who meet the following criteria:

- Adult and child residents who are 2 years of age or greater at enrollment
- Self-report primarily residing within the intervention community (Merced County, California)
- Are participating in the public health intervention, regardless of vaccination status

The questionnaire includes three parts:

- Front Door Survey
- Baseline Survey
- End of Study Survey

A participant could scan a QR code on the participant instruction card or the You & Me COVID-Free bag to access a 1-minute Front Door Survey each time she/he takes a swab test. Individuals will also be invited to complete a more detailed Baseline Survey, which will take about 20 minutes, and then another short follow-up survey (i.e., End of Study Survey) about four weeks later. There is no consent required for each completion of the Front Door Survey and scanning the QR code will start the Front Door Survey automatically. Immediately following the Front Door Survey, the participant is asked if they would like to participate in the sub study. If they agree, they are asked to sign an informed consent form and then given the Baseline Survey to complete. The End of Study Survey is administered 28 days following the completion of the Baseline Survey. The participants who fill out the Baseline Survey and the End of Study Survey will be included in the sub study if they provide a signed and dated informed consent form. There are no exclusion criteria.

As the at-home tests are authorized for children ages 2 and up, these children may also participate in at-home testing, but they will not be enrolled as participants themselves. For children 2 to 14 years of age, an adult must collect the sample and complete the test procedure. Data will be obtained from participants at the individual level.

The Front Door Survey is administered after each swab test by scanning the QR code. There is no consent needed for the Front Door Survey. Immediately following the Front Door Survey, the Baseline Survey is administered at the time of informed consent. The End of Study Survey is administered 28 days following the completion of the Baseline Survey.

The Front Door Survey and the Baseline/End of Study Surveys cannot be linked due to the way they were set up, despite the fact that there are matching record IDs. Each entry in the Front Door Survey corresponds to a unique test result. Multiple test results can correspond to the same participant, but each test result receives a unique record ID so there is no way to link the multiple results to one participant. Each participant can sign up once to take the Baseline Survey and End of Study Survey, and each unique record ID represents one participant in the Baseline and End of Study Surveys. An observation from the Baseline and End of Study Surveys will have the same record ID as an observation in the Front Door Survey. However, this does not necessarily mean that the information across both sets of surveys are from the same participant. In order to clarify the data flow of the YMCF project, the consort diagram in Figure 1 presents data from the Front Door Survey on the number of total entries, the number of valid test results, and completeness of the primary outcomes. It also presents data from the Baseline Survey on the and number of total participants, the number of consented participants, and completeness on secondary outcomes. The primary outcomes correspond to the Front Door Survey and are:

- Participant reasons for test use
- Test result
- Current vaccination status

- Likelihood of future vaccination
- Perspective on easiest way to obtain free oral COVID medicines

Among 2,399 valid-test-result entries in Front Door Survey, 412 entries completed full set of primary outcomes, 1,987 entries partially completed primary outcomes, and none entry were missing all primary outcomes. See details in Table 1.

Table 1. **Missingness of Primary Outcomes in Front Door Survey**

	Participant reasons for test use	Test result	Current vaccination status	Likelihood of future vaccination	Perspective on easiest way to obtain free oral COVID medicines
Missing	0	0	4	1987	0
Not missing	2399	2399	2395	412	2399
Total	2399	2399	2399	2399	2399

The secondary outcomes correspond to the Baseline Survey and are:

- Participant attitudes towards SARS-CoV-2 vaccination
- Accessibility to personal protective equipment and distancing in the work place
- Self-report COVID-19 testing and symptoms

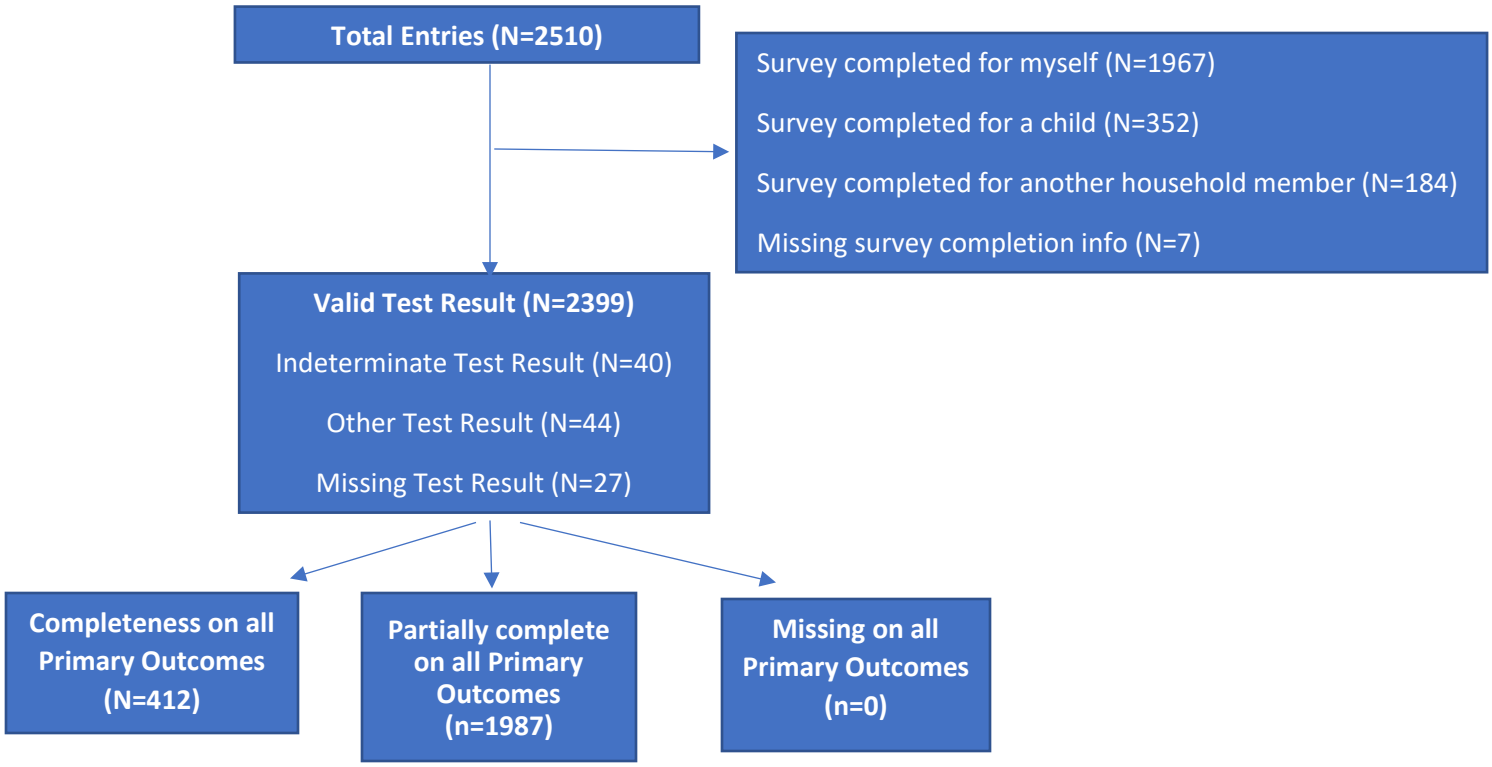
Among 1,208 consented participants in Baseline Survey, no participant completed full set of secondary outcomes, 1,208 participants partially completed secondary outcomes, and no participant were missing all secondary outcomes. See details in Table 2.

Table 2. **Missingness of Secondary Outcomes in Baseline Survey**

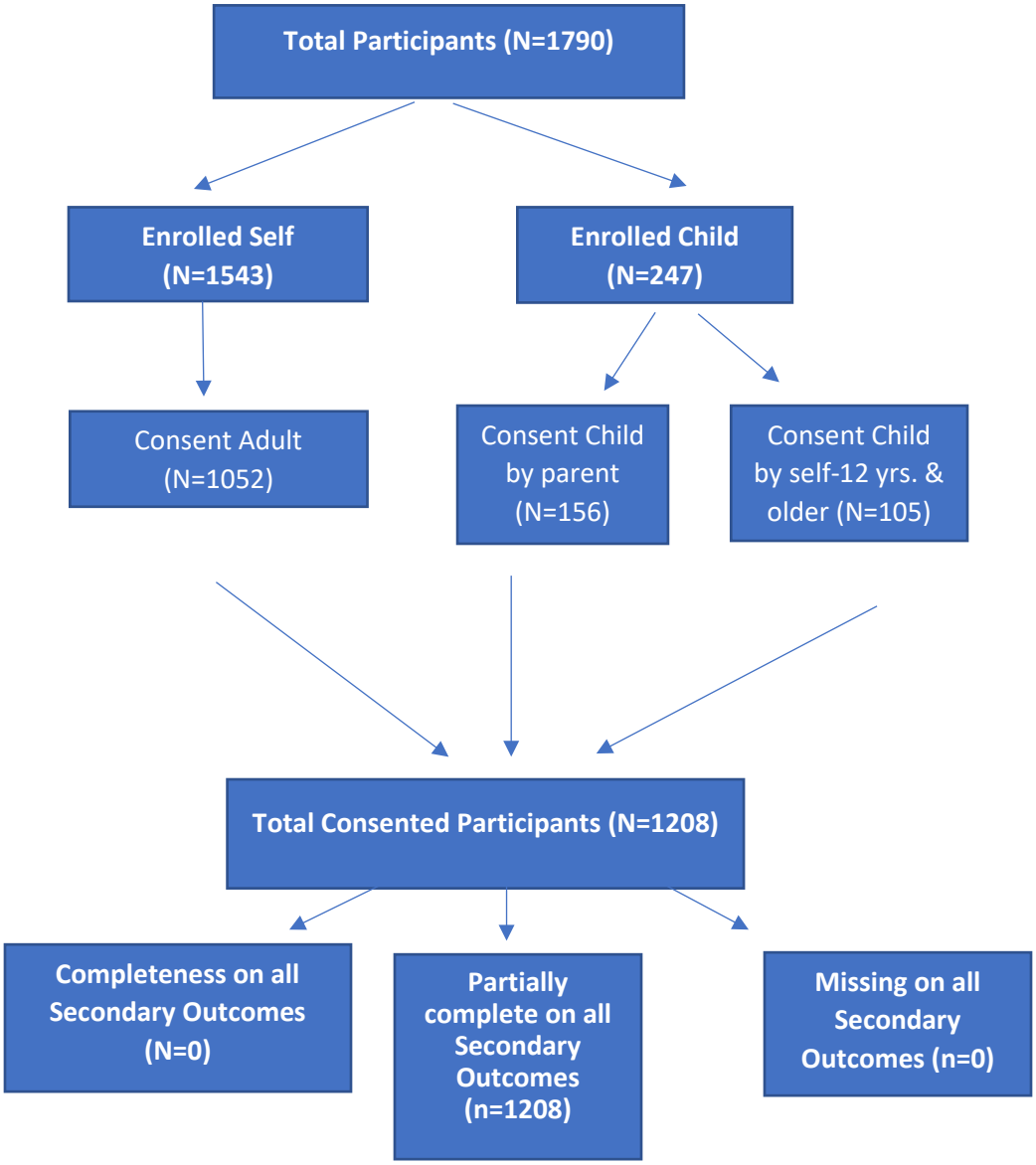
	Participant attitudes towards SARS-CoV-2 vaccination		Accessibility to personal protective equipment and distancing in the work place			Self-report COVID-19 testing				Self-report symptoms
	Reasons for getting COVID vaccine	Reasons for not getting COVID vaccine	Have access to necessary facilities to wash	Work require to be in close contact with others	have access to necessary personal protective equipment	Testing method	Have been tested for COVID	Have tested positive for COVID	Accessibility to testing	12 survey items
Missing	0	0	642	643	642	375	216	376	218	275-381
Not missing	1208	1208	566	565	566	833	992	832	990	827-933
Total	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208

Figure 1. **Consort Diagram of Front Door Survey and Baseline Survey**

Front Door Survey



Baseline Survey



Participants for this sub-study will be recruited within Merced County, California, participating in the larger public health intervention. Recruitment strategies include marketing with public health messaging in collaboration with local health departments, community organizations, media and targeted social media outreach for awareness and education, as well as other strategies that would be tailored to the different distribution scenarios. Participants may be compensated up to $50 for completion of all surveys. The sample size is up to 300,000 for the sub-study. The test kits distributed as part of the larger study will contain information about the sub-study and how-to consent using either a mobile application (e-consent) accessible free of charge to participants or via phone consenting (verbal consent).

All analyses will be conducted in the evaluable populations corresponding to the Front Door Survey and the Baseline Survey. The Front Door Survey Evaluable Population is defined as entries that have a valid SARS CoV-2 test response (i.e., positive or negative). The Baseline Survey Evaluable Population is defined as participants who were 2 years of age or above at enrollment, consenting to participate in the Baseline and End of Study Surveys.

Intervention

Test kits consisting of 2 tests per kit were distributed to Merced County households starting on November 18, 2021, through the Merced County Health Department and a coalition of community groups. Outreach and public awareness were done through a multi-pronged education and marketing program including mailers, door hangers, billboards, social media campaigns and targeted ads on local media outlets. Test kit distribution ended on December 31, 2021 and 200,000 test kits were distributed.

Text messages reminders were sent out to all study participants automatically using Twilio, with REDCap as the backend. The messages will include links to complete three surveys, i.e., Front Door Survey, Baseline Survey, and End of Study Survey (28 days later). Participant phone numbers will be provided to Twilio to facilitate the sending of text messages, and Twilio may store metadata about the delivery of the messages, such as successful or failure, and time and date stamps, but no other content will be stored. Messages for this study are one-way only and cannot be replied to.

Outcome Variables

- Primary Outcomes (from Front Door Survey)
    - Participant reasons for test use
    - Participant test result
    - Participant current vaccination status
    - Participant likelihood of future vaccination
    - Participant perspective on easiest way to obtain free oral COVID medicines
- Secondary Outcomes (from Baseline Survey)
    - Participant attitudes towards SARS CoV-2 vaccination
        - Proportion of reasons for getting/not getting a COVID-19 vaccination
    - Participant accessibility to personal protective equipment and distancing in work place
        - Proportion of respondents on access to necessary personal protective and distancing
    - Participant self-report COVID-19 testing and symptoms
        - Proportion of respondents on COVID-19 testing method, testing history and result, accessibility to testing
        - Proportion of respondents who report current symptoms

Handling of Missing Data

No imputation will be performed for missing data. Participants who *do not know* or *prefer not to answer* a question used as an outcome variable will be treated as missing data. Survey entries which do not show a valid (positive or negative) SARS CoV-2 test result (N=111) in the Front Door Survey will not be included in the Front Door Survey Evaluable Population. Out of the 2,510 entries in the Front Door Survey, 425 completed survey items on key primary outcomes. Among the 1,313 respondents who consented to participate Baseline and End of Study Survey, 480 completed survey items on key secondary outcomes.

Analysis Objectives and Tasks

1. **Objective:** Summarize sociodemographic characteristics and medical history of participants in the Baseline Survey Evaluable Population and summarize sociodemographic and test-relevant characteristics of entries in Front Door Survey Evaluable Population

   Analysis: Sociodemographic characteristics and medical history summaries will be presented in Table 1. All the sociodemographic characteristics and medical history variables from the Baseline Survey will be summarized by age category (Adult, Minor, Overall) where Adult is defined as age ≥ 18 years of age. Similarly, sociodemographic and test-relevant characteristics of entries will be presented in Table 5. All variables are categorical and will be summarized as counts and percentages. The denominators for the percentages for each variable in Table 1 are defined as the number of participants in the Baseline Survey Evaluable Population who have non-missing data for the variable. The denominators for the percentages for each variable in Table 5 are defined as the frequency of entries in the Front Door Survey Evaluable Population which have non-missing data for the variable.

   - See Appendix for proposed:
     - Table 1: Participant Sociodemographic Characteristics and Medical History in Baseline Survey in Merced County, CA
     - Table 5: Sociodemographic and Test-relevant Characteristics in Front Door Survey Entries in Merced County, CA

2. **Objective:** Summarize self-reported COVID-19 testing characteristics and symptoms corresponding to the Baseline Survey Evaluable Population

   Analysis: Testing method, testing history and result, accessibility to testing, and current symptoms will be presented in Table 2. All responses are taken from the Baseline Survey and will be summarized by age category (Adult, Minor, Overall). All categorical variables will be summarized as counts and percentages. The denominators for the percentages for each variable are defined as the number of participants in the Baseline Survey Evaluable Population who have non-missing data for the variable.

   - See Appendix for proposed:
     - Table 2: Participant COVID-19 Testing and Symptoms in Baseline Survey in Merced County, CA

3. **Objective:** Summarize attitudes towards SARS CoV-2 vaccination of participants in the Baseline Survey Evaluable Population

   Analysis: Reasons for getting and not getting a COVID-19 vaccine will be presented in Table 3. All responses are taken from the Baseline Survey and will be summarized by age category (Adult, Minor, Overall). All categorical variables will be summarized as counts and percentages. The denominators for the percentages for each variable are defined as the number of participants in the Baseline Survey Evaluable Population who have non-missing data for the variable.

   - See Appendix for proposed:
     - Table 3: Participant Attitudes towards SARS CoV-2 vaccination in Baseline Survey in Merced County, CA

4. **Objective:** Summarize personal protective equipment and distancing information in the work place of participants in the Baseline Survey Evaluable Population

   Analysis: Personal protective equipment and distancing information in work place will be presented in Table 4. All responses are taken from the Baseline Survey and will be summarized by age category (Adult, Minor, Overall). All these variables are ordinal, and they will be summarized as counts and percentages. The denominators for the percentages for each variable are defined as the number of participants in the Baseline Survey Evaluable Population who have non-missing data for the variable.

   - See Appendix for proposed:
     - Table 4: Participant Infection Risk in Work Place in Baseline Survey in Merced County, CA

5. **Objective:** Model the association between sociodemographic factors (i.e., age category, race, ethnicity, and preferred language) and the following outcomes in the Front Door Survey Evaluable Population
   i) reasons for test use,
   ii) test result,
   iii) current vaccination status,
   iv) likelihood of future vaccination,
   v) perceived COVID-19 medication access

   Analysis: Sociodemographic factors and outcomes will be drawn from the Front Door Survey. For the outcome i) reasons for test use, we will run a logistic regression model on each of the possible choices since participants could choose all that applied. For the outcomes ii) and iii), logistic regression will be used. For the outcome iv) likelihood of future vaccination, ordinal logistic regression will be used. For the outcome v), we will run a logistic regression model on each of the possible answers. Odds ratio estimates and 95% confidence interval will be presented in Table 6.

   The methods described above will constitute the main analysis of these primary outcomes. The hypothesis is defined as:

   $$H_0: \quad \beta_i = 0$$

   $$H_a: \quad \beta_i \neq 0$$

   And the logit is the linear function: $\ln(\frac{P}{1-P}) = \alpha + \beta_1 x_1 + \beta_2 x_2 + \ldots + \beta_k x_k$
   Where β_i is the parameter coefficient of independent variable x_i, and p represents the true probability that the dependent variable y=1 (event) given the numeric values on the independent variables. This analysis will be conducted using PROC LOGISTC in SAS. The hypothesis as expressed above will be tested at a 2-sided significance level of 0.05.

   Crucial assumption that must be met for logistic regression is linearity in the logit for continuous independent variables. We will use the Box-Tidwell test and scatter plot to check for linearity between the continuous predictors and the logit. If the linearity assumption is violated, it is necessary to make further adjustments either to the model (including or excluding predictors), or transforming the response and/or predictors. We will use restricted cubic splines to explore non-linear continuous associations.

It is important to note that the independence assumption for the logistic regression models may be violated since a single participant can enter multiple records in the Front Door Survey, but cannot be distinguished. If the violation is occurring then our models are underestimating standard errors, leading to inflated Type I error.

- See Appendix for proposed:
    - Table 6: Regression estimates for the association between sociodemographic factors and COVID-19 testing, vaccination, and medication outcomes

6. **Objective:** Model the association between social determinants of health (i.e., gender identity, employment, food/water/housing insecurity, and health insurance) and the following outcomes in the Baseline Survey Evaluable Population
   i) testing attitude (i.e., Participant thinks it's easy to get tested for COVID-19)
   ii) testing behavior (i.e., Participant has been tested for COVID-19)

   Analysis: Social determinants of health and outcomes will be drawn from the Baseline Survey. For the outcome i) testing attitudes (i.e., Participant thinks it's easy to get tested for COVID-19), ordinal logistic regression will be used. For the outcome ii) testing behavior (i.e., Participant has been tested for COVID-19), logistic regression will be used. Odds ratio estimates and 95% confidence interval will be presented in Table 7.
   The methods described above will constitute the main analysis of these secondary outcomes. The hypothesis is defined as:

$$H_0: \quad \beta_i = 0$$

$$H_a: \quad \beta_i \neq 0$$

   And the logit is the linear function: $\ln(\frac{P}{1-P}) = \alpha + \beta_1 x_1 + \beta_2 x_2 + \ldots + \beta_k x_k$
   Where β_i is the parameter coefficient of independent variable x_i, and p represents the true probability that the dependent variable y=1 (event) given the numeric values on the independent variables. This analysis will be conducted using PROC LOGISTC in SAS. The hypothesis as expressed above will be tested at a 2-sided significance level of 0.05

- See Appendix for proposed:
    - Table 7: Regression estimates for the association between social determinants of health and COVID-19 testing attitude and behavior

APPENDIX I - Proposed Table and Figure Listing

Table 1. Participant Sociodemographic Characteristics and Medical History in Baseline Survey in Merced County, CA

Characteristic	**Minor (N=xxx)**	**Adult (N=xxx)**	**All Respondents (N=xxx)[a]**
Age			
Median age in years	xx.x	xx.x	xx.x
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Race[b]			
White	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Black or African American	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
American Indian or Alaska Native	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Asian (including South Asian and Asian Indian)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Native Hawaiian or Pacific Islander	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Some other race	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Ethnicity			
Hispanic	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Gender Identify			
Woman	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Man	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Non-binary	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Transgender man	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Transgender woman	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Gender nonconforming	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Agender	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Bigender	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Current Pregnancy[c]	N/A	xxx (xx.x%)	xxx (xx.x%)
(Missing)	N/A	xxx (xx.x%)	xxx (xx.x%)
Education			

Have never gone to school	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Completed 5th grade or less	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Completed 6th to 8th grade	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Completed 9th to 12th grade	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Completed High school graduate or GED	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Completed Some college level/Technical/Vocational	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Completed Bachelor's degree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Completed Master's/Doctoral degree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Household Member			
Just me	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Living with spouse, no kids	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Family including kids	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Family with 3 generations	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Family with 4 generations	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Living with roommates	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Transitional Housing/Shelter/Homelessness	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Congregate Housing			
Group care setting	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Nursing home	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Residential care facility for disabled people	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Psychiatric treatment facility	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Group home	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Board and care home	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Prison or jail	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Halfway house	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Foster care	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Homeless or in no consistent shelter	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Loss of Employment due to COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Current employment status			
Working now	N/A	xxx (xx.x%)	xxx (xx.x%)
Temporarily laid off/sick leave/maternity leave	N/A	xxx (xx.x%)	xxx (xx.x%)
Unemployed	N/A	xxx (xx.x%)	xxx (xx.x%)
Retired	N/A	xxx (xx.x%)	xxx (xx.x%)
Permanently/temporarily disabled	N/A	xxx (xx.x%)	xxx (xx.x%)
Keeping house	N/A	xxx (xx.x%)	xxx (xx.x%)
Student	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Other	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Essential worker	N/A	xxx (xx.x%)	xxx (xx.x%)
(Missing)	N/A	xxx (xx.x%)	xxx (xx.x%)
Work place			
Nursing care facilities	N/A	xxx (xx.x%)	xxx (xx.x%)
Visiting nurse/home health aide service	N/A	xxx (xx.x%)	xxx (xx.x%)
Building cleaning services	N/A	xxx (xx.x%)	xxx (xx.x%)
Public transportation	N/A	xxx (xx.x%)	xxx (xx.x%)
Corrections facility	N/A	xxx (xx.x%)	xxx (xx.x%)
EMT or paramedic services	N/A	xxx (xx.x%)	xxx (xx.x%)
Meat packing farm facility	N/A	xxx (xx.x%)	xxx (xx.x%)
Agriculture and food production	N/A	xxx (xx.x%)	xxx (xx.x%)
Grocery store	N/A	xxx (xx.x%)	xxx (xx.x%)
Construction	N/A	xxx (xx.x%)	xxx (xx.x%)
(Missing)	N/A	xxx (xx.x%)	xxx (xx.x%)
Health Insurance			
No health insurance	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Private insurance	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Public insurance (Medicare/Medicaid/Tricare)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Loss Health Coverage due to COVID-19 Pandemic	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Language Spoken Other than English	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Family Income			
Less than $15,000	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
$15,000 - $19,999	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
$20,000 - $24,999	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
$25,000 - $34,999	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
$35,000 - $49,999	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
$50,000 - $74,999	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
$75,000 - $99,999	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
$100,000 and above	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Getting the Needed Health Care during COVID-19			
No, not a challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, a minor challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, this is a major challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Have A Place to Stay/Live during COVID-19			
No, not a challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, a minor challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, this is a major challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Getting Enough Food to Eat during COVID-19			
No, not a challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, a minor challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, this is a major challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Having Clean Water to Drink during COVID-19			
No, not a challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Yes, a minor challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, this is a major challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Getting the Needed Medicine during COVID-19			
No, not a challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, a minor challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, this is a major challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Getting to Needed-to-Go Place during COVID-19			
No, not a challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, a minor challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Yes, this is a major challenge	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Health Conditions			
Immunocompromised condition	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Autoimmune disease	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Hypertension	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Diabetes	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Chronic kidney disease	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Cancer diagnosis and/or treatment within the past 12	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Cardiovascular disease	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Asthma	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Chronic obstructive pulmonary disease	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Other chronic lung disease	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Sickle cell anemia	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Depression	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Alcohol or substance use disorder	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Intravenous drug use	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Other mental health disorder	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Other chronic condition	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Note:

a. The total N is number of participants who consented to participate in the Baseline Survey.
b. Participants could check all Race and Health Conditions that apply.
c. The denominator for pregnancy is number of participants who are age 18 and beyond, biological female and also self-identify gender as woman.

Table 2. Participant COVID-19 Testing and Symptoms in Baseline Survey in Merced County, CA

COVID-19 Testing and Symptoms	**Minor (N=xxx)**	**Adult (N=xxx)**	**All Respondents (N=xxx)[a]**
Able to isolate without losing job if participant tests positive for COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Able to quarantine without losing job if participant tests positive for COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Participant has been tested for COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Participant has been tested positive for COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Month of first positive test for COVID-19			
January	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
February	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
March	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
April	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
May	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
June	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
July	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
August	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
September	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
October	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
November	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
December	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Year of first positive test for COVID-19			
2019	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
2020	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
2021	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
2022	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Month of most recent test for COVID-19			
January	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
February	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
March	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
April	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
May	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
June	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
July	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
August	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
September	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
October	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
November	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
December	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Year of most recent test for COVID-19			
2019	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
2020	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
2021	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
2022	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Result of most recent test for COVID-19			
Negative	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Positive	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Never obtained results	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Indeterminate	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Method of most recent test for COVID-19			
Nasal swab	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Throat swab	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Blood sample	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Saliva	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Participant knows where to get COVID-19 testing in			
Strongly disagree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Disagree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Neither disagree or agree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Agree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Strongly agree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Participant thinks it is easy to get tested for COVID-19			
Strongly disagree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Disagree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Neither disagree or agree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Agree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Strongly agree	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Participant has the following symptoms during the past week			
Fever or chills	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Cough	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Shortness of breath or difficulty breathing	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Lack of energy or general tired feeling	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Muscle or body aches	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Headache	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
New loss of taste or smell	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Sore throat, congestion or runny nose	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Feeling sick to your stomach or vomiting, diarrhea	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Abdominal pain	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Skin rash	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Other	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Note:

a. The total N is number of participants who consented to participate in the Baseline Survey.

Table 3. Participant Attitudes towards SARS CoV-2 vaccination in Baseline Survey in Merced County, CA

Vaccination Acceptance	**Minor (N=xxx)**	**Adult (N=xxx)**	**All Respondents (N=xxx)[a]**
Participant has received a flu vaccine	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Participant has received a flu vaccine in the last 12 months	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Participant has received a COVID-19 vaccine	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Likelihood to get an approved COVID-19 vaccine when it becomes available			
Definitely not	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Not at all likely	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Not too likely	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Fairly likely	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Very likely	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Reason of getting a COVID-19 vaccine[b]			
I want to keep my family safe	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I want to keep my community safe	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I want to keep myself safe	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I have a chronic health problem, like asthma or diabetes	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
My doctor told me to get a COVID-19 vaccine	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I don't want to get really sick from COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I want to feel safe around other people	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I believe life won't go back to normal until most people get a COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Required by my school or workplace	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Required for travel	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Other	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Reason of NOT getting a COVID-19 vaccine[c]			
I'm allergic to vaccines	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I don't like needles	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I'm not concerned about getting really sick from COVID-19	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I'm concerned about side effects from the vaccines	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I don't think vaccines work very well	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I don't trust that the vaccines will be safe	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I don't believe the COVID-19 pandemic is as bad as some people say it is	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I don't want to pay for it	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
I don't know enough about how well a COVID-19 vaccine works	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
Other	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)
(Missing)	xxx (xx.x%)	xxx (xx.x%)	xxx (xx.x%)

Note:

a. The total N is number of participants who consented to participate in the Baseline Survey.
b. Participants could check all that apply on Reason of Getting a COVID-19 Vaccine.
c. Participants could check all that apply on Reason of Not Getting a COVID-19 Vaccine.

Table 4. Participant Infection Risk in Work Place in Baseline Survey in Merced County, CA

Work Place Infection Risk	**Adult (N=xxx)[a]**
Participant has access to necessary facilities to wash in work place	
Not at all	xxx (xx.x%)
Rarely	xxx (xx.x%)
Some of the time	xxx (xx.x%)
Yes, most of the time	xxx (xx.x%)
Yes, all of the time	xxx (xx.x%)
(Missing)	xxx (xx.x%)
Participant is in close contact (i.e. within 6 ft) with others in work place	
Not at all	xxx (xx.x%)
Rarely	xxx (xx.x%)
Some of the time	xxx (xx.x%)
Yes, most of the time	xxx (xx.x%)
Yes, all of the time	xxx (xx.x%)
(Missing)	xxx (xx.x%)
Participant has access to necessary personal protective equipment in work place	
Not at all	xxx (xx.x%)
Rarely	xxx (xx.x%)
Some of the time	xxx (xx.x%)
Yes, most of the time	xxx (xx.x%)
Yes, all of the time	xxx (xx.x%)
(Missing)	xxx (xx.x%)

Note:

a. The total N is number of participants who consented to participate in the Baseline Survey.

Table 5. Sociodemographic and Test-relevant Characteristics in Front Door Survey Entries in Merced County, CA

Characteristic	**Total Entries (N=xxx)[a]**
Age Category[b]	
Complete survey for self	xxx (xx.x%)
Complete survey for child	xxx (xx.x%)
(missing)	xxx (xx.x%)
Race[c]	
White	xxx (xx.x%)
Black or African American	xxx (xx.x%)
American Indian or Alaska Native	xxx (xx.x%)
Asian (including South Asian and Asian Indian)	xxx (xx.x%)
Native Hawaiian or Pacific Islander	xxx (xx.x%)
Some other race	xxx (xx.x%)
(missing)	xxx (xx.x%)
Ethnicity	
Hispanic	xxx (xx.x%)
(missing)	xxx (xx.x%)
Main Reason for testing	
I wanted to be sure I/my child did not have COVID-19 before being around others	xxx (xx.x%)
I/my child had COVID-19 like symptoms	xxx (xx.x%)
I/my child was in close contact with someone who might have COVID-19	xxx (xx.x%)
I/my child was in close contact with someone who tested positive for COVID-19	xxx (xx.x%)
Someone in my household might have COVID-19	xxx (xx.x%)
Someone in my household tested positive for COVID-19	xxx (xx.x%)
Other	xxx (xx.x%)
(missing)	xxx (xx.x%)
COVID-19 test result	
Positive	xxx (xx.x%)
Negative	xxx (xx.x%)
(missing)	xxx (xx.x%)

Receive at least one dose of a COVID-19 vaccine	xxx (xx.x%)
(missing)	xxx (xx.x%)
Likelihood of future COVID-19 vaccine	
Very likely	xxx (xx.x%)
Somewhat likely	xxx (xx.x%)
Not very likely	xxx (xx.x%)
Not at all likely	xxx (xx.x%)
(missing)	xxx (xx.x%)
Easiest way to get free COVID-19 oral medications	
An urgent care center	xxx (xx.x%)
A doctor's or other health professional's office	xxx (xx.x%)
A mobile heath unit	xxx (xx.x%)
A drug store/pharmacy	xxx (xx.x%)
A grocery store	xxx (xx.x%)
A community center	xxx (xx.x%)
A place of worship	xxx (xx.x%)
A community park	xxx (xx.x%)
A neighborhood school	xxx (xx.x%)
Other	xxx (xx.x%)
(missing)	xxx (xx.x%)

Note:

a. The total entries reflect number of entries in Front Door Survey that have a valid SARS CoV-2 test response (i.e., positive or negative).
b. Age Category is based on participant's response on the question *I am completing this survey for* each entry. If participants chose *Myself* or *Another household member* in their entries, they presumably were Adult; likewise, if *A child* were chosen in their entries, the participants presumably were children. However, there is no guarantee that *Myself* or *Another household member* is an adult, or *A child* is a child. No other valid information can be linked with Front Door Survey to identify the actual age category.
c. Participants could check all Race that apply.

Table 6. Regression estimates for the association between sociodemographic factors and COVID-19 testing, vaccination, and medication outcomes

	Reason for test use						Test result		Vaccination status				Perceived easiest place to access COVID-19 oral medications	
	Close contact possible COVID-19 (N= xxx)		Close contact COVID-19 positive (N= xxx)		Household member COVID-19 positive (N= xxx)		Positive COVID-19 test result (N= xxx)		Received at least one vaccine dose (N= xxx)		Likelihood of future vaccination[a] (N= xxx)		Pharmacy only vs. doctor's office or community setting[b] (N= xxx)	
All Respondents[e] (N= xxx)	**OR_{Adj}[c]**	**95% CI**	**OR_{Adj}[c]**	**95% CI**	**OR_{Adj}[c]**	**95% CI**	**OR_{Adj}[c]**	**95% CI**	**OR_{Adj}[c]**	**95% CI**	**OR_{Adj}[d]**	**95% CI**	**OR_{Adj}[d]**	**95% CI**
Age, years														
<18	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x- x.x	x.x	x.x - x.x	x.x	x.x - x.x
≥18	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Race														
Black	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x- x.x	x.x	x.x - x.x	x.x	x.x - x.x
Other	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x- x.x	x.x	x.x - x.x	x.x	x.x - x.x
Asian	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x
Multiple	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x- x.x	x.x	x.x - x.x	x.x	x.x - x.x
White	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ethnicity														
Hispanic/Latino/ Spanish	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x- x.x	x.x	x.x - x.x	x.x	x.x - x.x
Non-Hispanic/Latino/ Spanish	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Language														
English	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x - x.x	x.x	x.x-x.x	x.x	x.x - x.x	x.x	x.x - x.x
Spanish	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Note:
NA=odds ratio not estimable due to small sample sizes.
Bolded estimates p<.05.
[a]Likelihood of future vaccination per one unit change (Not at all likely to not very likely; Not very likely to somewhat likely; Somewhat likely to very likely).
[b]Community settings=grocery store, community center, place of worship, community park, neighborhood school, or other.
[c]Estimates based on binary logistic regression, adjusted for age, race, and ethnicity.
[d]Estimates based ordinal logistic regression, adjusted for age, race, and ethnicity.
[e]Number of All respondents is the number of participants who have complete data on full set of sociodemographic factors (i.e., Age, Race, Ethnicity, and Language), sample size on each outcome could vary based on the number of participants respond to the relevant survey item.

Table 7. Regression estimates for the association between social determinants of health and COVID-19 testing attitude and behavior in Baseline Survey

	Easy to get tested for COVID-19[a] (N= xxx)		**Has been tested for COVID-19 (N= xxx)**	
All Respondents[d] (N= xxx)	**OR_{Adj}[b]**	**95% CI**	**OR_{Adj}[c]**	**95% CI**
Gender Identify				
Woman	x.x	x.x - x.x	x.x	x.x - x.x
Man	x.x	x.x - x.x	x.x	x.x - x.x
Non-binary	x.x	x.x - x.x	x.x	x.x - x.x
Transgender man	x.x	x.x - x.x	x.x	x.x - x.x
Transgender woman	x.x	x.x - x.x	x.x	x.x - x.x
Gender nonconforming	x.x	x.x - x.x	x.x	x.x - x.x
Agender	x.x	x.x - x.x	x.x	x.x - x.x
Bigender	.	.	.	.
Transitional Housing/Shelter/Homelessness	x.x	x.x - x.x	x.x	x.x - x.x
Congregate Housing				
Group care setting	x.x	x.x - x.x	x.x	x.x - x.x
Nursing home	x.x	x.x - x.x	x.x	x.x - x.x
Residential care facility for disabled people	x.x	x.x - x.x	x.x	x.x - x.x
Psychiatric treatment facility	x.x	x.x - x.x	x.x	x.x - x.x
Group home	x.x	x.x - x.x	x.x	x.x - x.x
Board and care home	x.x	x.x - x.x	x.x	x.x - x.x
Prison or jail	x.x	x.x - x.x	x.x	x.x - x.x
Halfway house	x.x	x.x - x.x	x.x	x.x - x.x
Foster care	x.x	x.x - x.x	x.x	x.x - x.x
Homeless or in no consistent shelter	.	.	.	.

Loss of Employment due to COVID-19	x.x	x.x - x.x	x.x	x.x - x.x
Current employment status				
Working now	x.x	x.x - x.x	x.x	x.x - x.x
Temporarily laid off/sick leave/maternity leave	x.x	x.x - x.x	x.x	x.x - x.x
Unemployed	x.x	x.x - x.x	x.x	x.x - x.x
Retired	x.x	x.x - x.x	x.x	x.x - x.x
Permanently/temporarily disabled	x.x	x.x - x.x	x.x	x.x - x.x
Keeping house	x.x	x.x - x.x	x.x	x.x - x.x
Student	x.x	x.x - x.x	x.x	x.x - x.x
Other	.	.	.	.
Health Insurance				
No health insurance	x.x	x.x - x.x	x.x	x.x - x.x
Private insurance	x.x	x.x - x.x	x.x	x.x - x.x
Public insurance (Medicare/Medicaid/Tricare)	.	.	.	.
Loss Health Coverage due to COVID-19 Pandemic	x.x	x.x - x.x	x.x	x.x - x.x
Getting the Needed Health Care during COVID-19 Pandemic				
No, not a challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, a minor challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, this is a major challenge	.	.	.	.
Have A Place to Stay/Live during COVID-19 Pandemic				
No, not a challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, a minor challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, this is a major challenge	.	.	.	.
Getting Enough Food to Eat during COVID-19 Pandemic				
No, not a challenge	x.x	x.x - x.x	x.x	x.x - x.x

Yes, a minor challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, this is a major challenge	.	.	.	.
Having Clean Water to Drink during COVID-19 Pandemic				
No, not a challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, a minor challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, this is a major challenge	.	.	.	.
Getting the Needed Medicine during COVID-19 Pandemic				
No, not a challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, a minor challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, this is a major challenge	.	.	.	.
Getting to Needed-to-Go Place during COVID-19 Pandemic				
No, not a challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, a minor challenge	x.x	x.x - x.x	x.x	x.x - x.x
Yes, this is a major challenge	.	.	.	.

Note:
NA=odds ratio not estimable due to small sample sizes.
Bolded estimates p<.05.
[a]Easy to get tested for COVID-19[a] per one unit change (Strongly disagree to Disagree, Disagree to Neither disagree or agree; Neither disagree or agree to Agee; Agree to Strongly agree).
[b]Estimates based on ordinal logistic regression, adjusted for gender identity.
[c]Estimates based on binary logistic regression, adjusted for gender identity.
[d]Number of All respondents is the number of participants who have complete data on full set of social determinants of health factors (i.e., gender identity, food/water/housing insecurity, employment, and health insurance), sample size on each outcome could vary based on the number of participants respond to the relevant survey item.

History of Changes to this Document

Version	Date	Description of Change(s)
1.0	03 March 2022	Initial draft
2.0	30 April 2022	Revision based on PIs' comments