

# CVACS

COVID-19 VACCINE SURVEY

## Panel User Manual

### Survey 1

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Timothy Brophy  
Kim Ingle  
Brendan Maughan-Brown  
Katherine Eyal  
Alison Buttenheim

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## 1 What is the COVID-19 Vaccine Survey?

The COVID-19 Vaccine Survey (CVACS) is a South African national panel study of individuals initially unvaccinated against COVID-19. CVACS is implemented by the Southern Africa Labour and Development Research Unit (SALDRU) based at the University of Cape Town's (UCT's) School of Economics.

The same respondents are interviewed twice, a few months apart, to gather information about their attitudes, beliefs and intentions regarding COVID-19 vaccination. The purpose of CVACS is to collect high quality, timely, and relevant information on facilitators and barriers to COVID-19 vaccine uptake - including vaccine hesitancy and access constraints - to contribute to the development of data-driven campaigns and programmes to increase COVID-19 vaccination uptake in South Africa.

Multiple outcomes are measured by CVACS, such as vaccination knowledge, attitudes, and beliefs (including specific concerns); vaccination intentions (plans to get vaccinated), vaccine access constraints, and information seeking.

To ensure that the most policy-relevant information is collected, the questionnaires were co-created with academics, policymakers, and members of civil society organizations involved in the COVID-19 response and vaccination roll-out. Co-development of questions was achieved through workshops, one-on-one engagements and policy crowdsourcing.

Survey 2 was conducted during February and March 2022. Survey 2 will re-interview the same Survey 1 respondents and ask questions of both individuals who remain unvaccinated and those who have been vaccinated since Survey 1. Further unvaccinated respondents will be recruited to replace Survey 1 respondents who drop out of the survey, in order to achieve a sample of unvaccinated respondents of similar size to Survey 1.

CVACS was not designed to be, and should not be used as a prevalence study. The data cannot be considered to be nationally representative of all unvaccinated individuals in South Africa.

## 2 This manual and how to cite it

This manual is designed to assist users of the CVACS dataset and accompanies the Survey 1, data collected in 2021. It contains information about the design, operations and data for Survey 1.

This manual was prepared using Version 1.0.0 of the CVACS Survey 1 dataset.

Users wishing to cite this manual should use the following citation:

*Brophy, T., Ingle, K., Maughan-Brown, B., Eyal, K., Bottenheim, A. COVID-19 Vaccine Survey (CVACS) 2021: Panel User Manual. Cape Town: Southern Africa Labour and Development Research Unit.*

### 3 Correct citation of the CVACS data

Users wishing to cite the dataset should use the following citation:

*COVID-19 Vaccine Survey (CVACS) 2021, Survey 1 [dataset]. Version 1.0.0. Cape Town: Bill and Melinda Gates Foundation [funding agency]. Cape Town: Southern Africa Labour and Development Research Unit [producer], 2021. Cape Town: DataFirst [distributor], 2022. DOI: <https://doi.org/10.25828/82ww-5r26>*

## 4 Sampling and weights

### 4.1 Sampling

The CVACS sample was obtained in two steps. First, a stratified sample was drawn from the GeoTerraImage (GTI) 2021 sampling frame (<https://geoterraimage.com/>), using individuals aged eighteen and older. The sample was primarily stratified across the following categories: province, population group, geographic area type (metro, non-metro urban, non-metro rural) and the neighbourhood lifestyle index (NLI), in groups of NLI 1-2, NLI 3-4, and NLI 5-10. The NLI is an income-based segmented classification of neighbourhoods according to their income and various lifestyle characteristics at various spatial levels. Age categories defined according to the COVID-19 vaccination age groups (18-34, 35-49, 50-59, 60+), and gender were used as further explicit stratification variables to ensure sufficient coverage across the categories of interest. In total 508 strata were formed. The sample was disproportionately allocated to the strata.

Second, a Credit Bureau database (containing more than 16 million cell phone numbers) was then linked to the sampling frame at the Enumeration Area (EA) level. The Credit Bureau database contains contact details of individuals who have had a credit check. The reason for the credit check could be for a credit application, rental application, job application or other use. The outcome of the credit check has no consequence on the individual's eligibility to be included in the sampling frame. Within each stratum, a random sample of cell phone numbers (respondents) was selected for the CATI survey.

The CVACS sample aimed to be as representative as possible. Several limitations and potential sources of bias should be considered when interpreting the findings:

- Individuals who have not had a credit check do not appear in the credit bureau database. The credit bureau database is thus not representative of all South Africans.
- CVACS is a telephone survey - access to a telephone is an eligibility criterion. Individuals with access to a telephone, primarily a cellphone, likely have different characteristics to the overall South African population, including greater access to resources.
- Non-response for telephone surveys is typically higher compared to in field surveys. Adjustments for non-response are made within each of the 508 strata. However, these adjustments assume that the individuals who respond within a stratum are not systematically different to the non-respondents. With very high non-response rates, the weighting adjustments are unlikely to account for all select bias in non-response.
- Self-report of not having been vaccinated against COVID-19 was an eligibility criterion for the survey. That is, CVACS Survey 1 interviewed only those individuals who said they were unvaccinated against COVID-19. A total number of 14,577 individuals were screened on vaccination status: 10,536 individuals reported being vaccinated, 3,969 reported being unvaccinated, 64 refused and 8 reported "don't know." The proportion who reported that they were vaccinated (72%) is significantly greater than the

proportion of the adult population of South Africa vaccinated at the time of the CVACS Survey. This is suggestive of significant bias in self-reporting of vaccination status.

Given the high proportion of individuals reporting that they were vaccinated, we adjusted the recruitment strategy at the start of the fieldwork period in order to minimise self-reporting bias of vaccination status. Instead of confirming the respondent's name at the start of the interview, respondents were invited to share his/her name at the end of the survey. Consequently respondents reported their vaccination status before sharing their name. While the vast majority of individuals interviewed were the exact individuals selected from the sample frame, some individuals who did not meet the initial sampling criteria were included in the survey.

The final realized sample was approximately balanced by gender, and had a similar provincial distribution to the South African population. The observed distribution across the vaccination rollout age categories was slightly more skewed to those in younger age categories than originally intended, reflecting the higher rates of vaccination among the older South African population.

## 4.2 Weighting

Weights were assigned to make weighted sample records as representative as possible as the sampling frame.

Weights were developed to compensate for

- Unequal inclusion probabilities due to the sample design, by calculation the design weights.
- Non-response within each stratum, by adjusting the design weight, if necessary.

### 4.2.1 Design weights – corrected for nonresponse

All unvaccinated respondents and those who indicated that they are vaccinated were considered for the weighting process. The design weight for a respondent in stratum  $i$ , is calculated by

$$w_{PP_i} = \frac{N_i}{n_i}$$

where  $N_i$  is the 18+ population number and  $n_i$  the number of respondents selected for the sample in stratum  $i$ .

Hereafter, the design weights are adjusted to compensate for non-response, within each stratum, as follows:

$$w_{PP_i}^* = \tau_i w_{PP_i}$$

where  $\tau_i = \frac{\text{sum of weights of designed number of respondents in stratum } i}{\text{sum of weights of realised number of respondents in stratum } i}$ , the non-response weight factor.

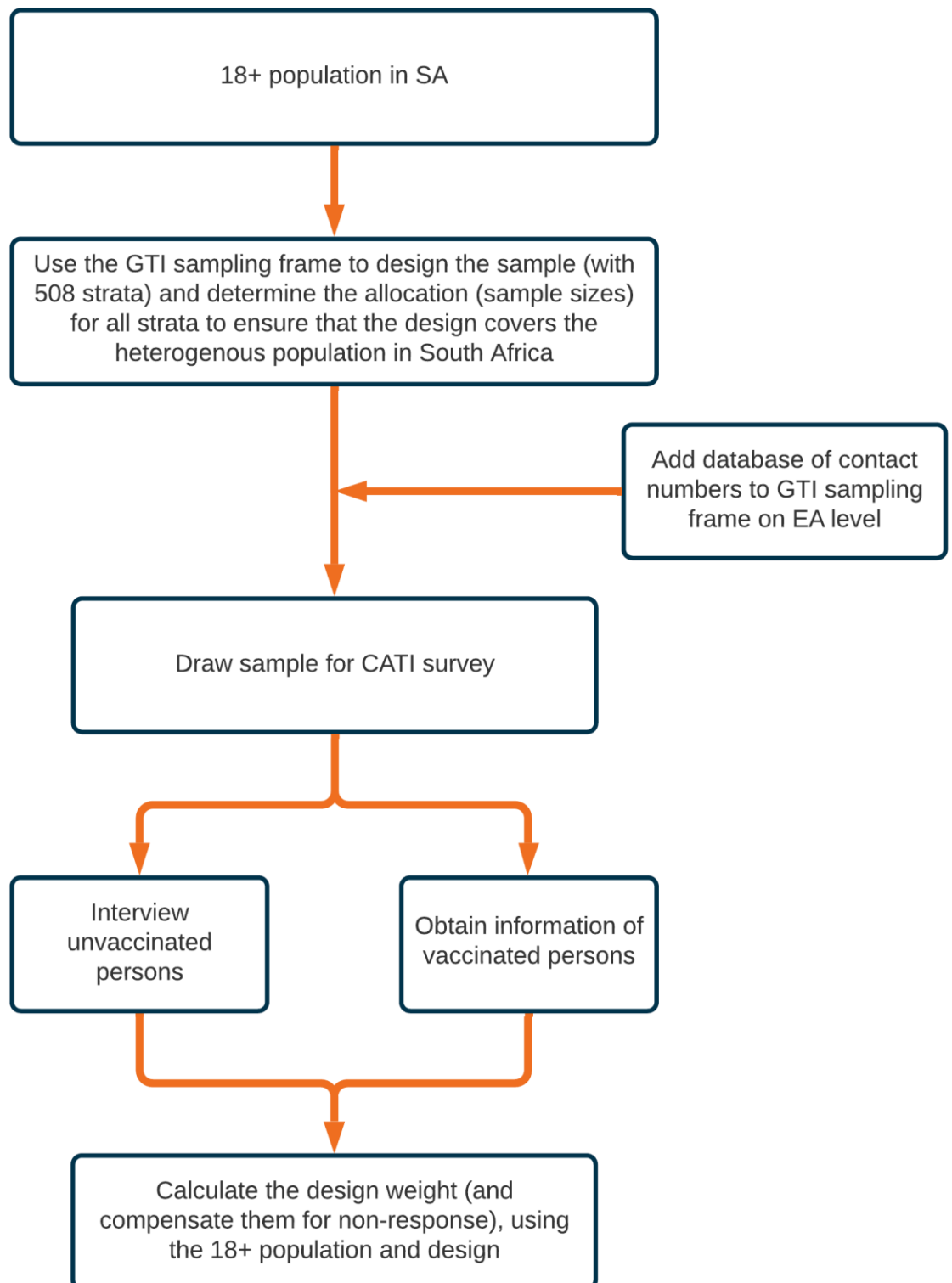
### 4.2.2 Using the CVACS weights in Stata

In Stata the command to set the survey design in CVACS Survey 1 using the design weight is:

```
svyset [weight = s1_dwgt]
```

Please see diagram below for a description of the sampling process.

#### 4.2.3 Description of the sampling process



## 5 Data collection

### 5.1 Method of data collection

A single survey instrument was administered for CVACS Survey 1 data collection using computer-assisted telephone interviews (CATI). The CVACS questionnaire was translated into all South African languages and interviews were conducted in the preferred language of the respondent.

The realized Survey 1 sample consisted of 3510 individual interviews, all of whom self-reported that they were unvaccinated for COVID-19. Most of the survey questions collected individual-level data, with some household level data also collected through the individual questionnaire.

### 5.2 Informed consent and ethics approval

CVACS was approved by the Ethics in Research Committee (EiRC) of the Faculty of Commerce, University of Cape Town (See appendix Appendix – CVACS ethics approval). Informed consent was obtained from all respondents. Respondents were informed of their rights to refuse to answer the questionnaire entirely or to refuse to answer any particular question; and that their data will remain confidential. The Survey 1 informed consent statement was:

#### Informed Consent

Thank you for taking our call. We are doing important research about the wide variety of South African adults' opinions about COVID-19 and vaccinations. We want to learn about people's opinions and choices and how they might change over time. There are no right or wrong answers. We respect all preferences and choices. Your feedback will remain confidential and will never be linked to your name. Participation is voluntary and you can stop at any time. If you agree we might contact you in a few months' time to follow up. To thank you for your time you will be entered into a lucky prize draw. This call will be recorded for quality control. The survey will take approximately 10 minutes and is called the COVID-19 Vaccine Survey. UCT Commerce Ethics Committee approved the research study and you can reach us on 021-650-xxxx with any questions.

### 5.3 Data collection dates

Table 1 contains the start and end date of the data collection periods for Survey 1.

Table 1: Data collection dates

Survey	Start date	End date
1	15 November 2021	15 December 2021



## 5.4 Data quality

Data quality assurance addressed the following:

### 5.4.1 Unit non-response

Unit non-response was mitigated via several measures:

- **Call rules:** CVACS initiated a call rule which indicated that there needed to be multiple attempts to contact the respondent before we would consider the number to be uncontactable.
- **Lucky draw incentives:** To thank CVACS respondents for their time, respondents in each survey round were informed that they would be entered into two separate lucky prize draws. One lucky draw occurs at the end of each survey round with three winners, each receiving a R 3000 gift voucher from a store of their choice. Additionally, each time they participate in a CVACS survey, respondents are entered into a grand prize draw which occurs at the conclusion of both survey rounds in April 2022, where they could win a R 10 000 in-store voucher.

### 5.4.2 Item non-response

Item non-response can arise for different reasons, for example when a respondent refuses to answer a question or does not know the answer. In such instances the “Don’t Know” or “Refuse” response options are coded accordingly (See section 6.6 [Non-response codes](#)), allowing data users to estimate item non-response rates for relevant questions.

The use of CATI reduces the instances of interviewer-induced item non-response because CATI automates the skip pattern for the interviewer and prompts them if a question is missed. There is a strict policy that data is only accepted from data collection if all sections of the questionnaire have been answered.

### 5.4.3 Data consistency

In addition to item and unit non-response, internal consistency of the data within the instruments and against the sampling frame were also conducted. Involving several checks and mitigations to ensure data consistency:

- **Within-survey consistency checks in the office:** SALDRU carried out a range of pattern searches and consistency checks on the data during fieldwork to identify interviewer effects and possible mis-capture. When areas of concern were found, the audio recording of respondent’s interviews were reviewed by the quality control team to ensure that the data is correct.
- **Immediate correction of interviewer-related errors during the fieldwork period:** CATI allows data quality to be checked from the start of data collection by each interviewer. SALDRU can then inform the data collection company of any unusual interviewer behaviour for immediate correction and retraining. Performing this in a timely manner enables CVACS to mitigate and correct most interviewer effects.

## 6 Data files and structure

CVACS Survey 1 collected individual and household level data using one questionnaire. In Survey 1, this is administered to unvaccinated respondents only.

### 6.1 Data format

Data files are provided in Stata 14 file format, but can also be opened with more recent versions of Stata.

### 6.2 Data file name structure

Each respondent was assigned a unique personal identifier that is used for both Survey 1 and Survey 2. This unique personal identifier is contained in the variable called *pid*.

Each record contained in the data files is unique on *pid* and merge to each other uniquely in a one to one relationship

All data files contained in the CVACS dataset have the following naming convention:

#### [Questionnaire]\_CVACS\_[Survey]\_Anon\_V[x.x.x]

<i>Questionnaire:</i>	Describes the data contained in the data file. This is derived from the name of the questionnaire administered. e.g: <i>Unvaccinated</i>
<i>Survey:</i>	Indicates which survey round the data file contains. e.g: <i>S1</i> indicates Survey 1
<i>Anon:</i>	Indicates that all the Personal Identifiable Information (PII) data has been removed from the data file. e.g: <i>Anon</i>
<i>Vx.x.x:</i>	Represents the dataset version number. CVACS versions at the dataset level and not at the data file level. See section 6.3 Versioning of the dataset. e.g: <i>V1.0.0</i>

## 6.3 Versioning of the dataset

The versioning of the CVACS dataset aims to inform users of major, minor, and patch fix releases of the data to ensure that they use the most up-to-date data for their research.

### Version[major releases].[minor releases].[patch releases]

**Major release:** Refers to the number of a major release. A major release only occurs when a full release of the entire dataset is necessary. This normally only coincides with the release of another round of data collected.

*e.g. V1.0.0, here 1 indicates the first major release of the dataset.*

**Minor release:** Refers to the number of a minor release. A minor release is the release of a single data file that occurs between major releases, i.e. a release of corrected data where no new data has been collected.

*e.g. V1.2.0, here the number 2 indicates a second minor release between major releases.*

**Patch releases:** Refers to the number of a patch release. Patches are scripts (Stata do files) that are created to correct specific errors in the data. The scripts are given to users to run on the existing data files to fix a specific data issue. Once run, the patch will generate a new minor release version of the data.

*e.g. V1.2.3, here the number 3 indicates that 3 patch scripts were released to fix data issues in version 1.2 of the dataset.*

## 6.4 Data files

The data files that make up the CVACS Survey 1 dataset are as follows:

**Unvaccinated:** This is the main data file containing data from responses to the questions in the questionnaire for unvaccinated respondents.

One record per respondent (Unique identifier: *pid*).

This data file does not contain any variables which could comprise anonymity. As a result, there are a few questions that appear in the questionnaire for which there is no corresponding data in the public release version.

**derived:** This data file contains derived variables that are not collected through questions asked directly of the respondent but are calculated or imputed from their responses to other questions.

One record per respondent for completed questionnaires only (Unique identifier: *pid*).

Since Stata limits variable labels to a length of 80 characters, the variable labels are based on a shortened version of the question asked to respondents. It is recommended that data users refer to the questionnaire for the relevant data file to review the full wording of questions.

## 6.5 Derived data file

Certain variables are created by the CVACS team. These variables appear in the derived data file.

Derived variables are:

- Any variable that is finalised after data collection through a post-coding exercise;
- Any variable that is the result of a combination of other variables;
- Any variable that is imputed.

The derived variables include:

- Weights
  - The weights discussed in section 4.2 [Weighting](#).
- “Best” variables
  - These are the best estimates of certain demographic characteristics of the respondent. These are derived by considering responses by a respondent across the CVACS panel, and at times across various questions as well.
- Age intervals
  - Age intervals are calculated from the respondent’s best age.
- National lockdown level at the time of interview
  - During the COVID-19 pandemic, the South African government decided upon different levels of “lockdown” (restriction of activities), in response to COVID-19 infections at the time, with the aim of reducing the spread of COVID-19.
- Employment status
  - The respondents’ employment status is derived from various questions in the labour market section of the questionnaire. A Stata do file accompanies the release of the data which shows how this employment status variable was derived.
- Derived geographic variables
  - These geographic variables are derived from the area in which the respondent reported they were living at the time of interview.
- Interviewer information
  - This includes basic demographic, language and experience information on the enumerator who conducted the interview for each respondent.

## 6.6 Non-response codes

Non-response codes are usually indicated by negative numbers. These codes are detailed below.

*Table 2: Typical non-response codes in CVACS*

Type of Item Non-Response	Non-Response Code
Don’t know	-9
Refused	-8
Not applicable	-5
Missing	-3

-3 “Missing” is a data quality code which is only used post-fieldwork. It is applied to show the data user that a question should have been answered during fieldwork but was not for that observation.

Researchers are reminded to take these non-response codes into account when conducting their analysis.

## 6.7 Variable naming convention

Variable names use a prefix to specify a) the survey round (Survey 1 or Survey 2), and b) the data file:

### [Survey round]\_[Data File]\_

*Survey round:* “S{i}” where {i} represent the survey round number.

*Eg: “S1\_” survey round 1*

*Data file:* “\_{x}” where {x} represents the data file in which the variable can be found.

*Eg: “S1\_u\_” where “u” represents the Unvaccinated data file.*

## 7 Merging the data within a survey round

In order to merge observations for individuals from different data files, users should merge on the person level identifier, which is the variable ‘pid’. The relevant Stata code for merging version 1.0.0. of the Survey 1 data is as follows:

```
use “Unvaccinated_CVACS_S1_Annon_1.0.0.dta”, clear
merge 1:1 pid using “derived_CVACS_S1_Annon_1.0.0.dta”
drop _merge
```

## 8 Important data limitations

### 8.1 Individual and household level analysis

The limits of telephonic surveys with respect to questionnaire length and complexity is a key factor for researchers to take into account when performing their analysis. The household level data are reported by the respondent on behalf of the household. It is not known whether the respondent was the most knowledgeable person in the household in terms of answering household level questions. It is therefore recommended that researchers avoid using CVACS to conduct household-level analysis. However, it is possible to estimate statistics at an individual level about household living conditions. Similar to how Kerr et al., (2020) explain for NIDS-CRAM, it is not legitimate to estimate that Y% of households had an internet enabled device. One could say that Z% of adults live in households where members went hungry, but not that A% of households had members going hungry or that B% of members went hungry.

### 8.2 Regional analysis

Due to the size of the sample, we do not recommend any aggregate results at sub-national levels - this includes provincial or lower levels of geography.

### 8.3 Derived and imputed variables

#### 8.3.1 Geographical variables

All CVACS derived geographic information is based on the are that the respondent’s self-reported they live in.

### 8.3.2 Monetary values

When comparing monetary values over time, inflation should be taken into account. Since Statistics South Africa calculates inflation rates each month, the monetary values from different months can be inflated/deflated to take into account inflation.

To help researchers control for inflation, deflator Stata do files accompany the releases of the data.

### 8.3.3 Open-ended questions

The CVACS questionnaire includes several open-ended questions where the enumerator recorded their translation of the response. This has the potential to introduce error which is difficult to quantify. Researchers can consult the questionnaire to view the question as it was asked of the respondent, together with any question-specific instructions for the enumerator.

## 9 Program library

Two kinds of coding files are provided: (i) those that give insight into derived variables, and (ii) those that assist with data manipulation of the survey data files.

### 9.1 Derived variables

#### 9.1.1 Employment status

Script file name: *Program1a-CVACS\_Survey1\_Employment\_Status.do*

Employment status is coded using the International Labour Organisation's definitions to assign respondents to one of the following categories: not employed (i.e. unemployed or not economically active) or employed.

The respondent is determined to be employed if they are economically active and reported having any form of employment in the past week at the time of the interview.

#### 9.1.2 Deflator

Script filename: *Program2a-CVACS\_Survey1\_Deflating\_Do\_File.do*

Because data collection for CVACS took place over multiple months, all financial data need to be deflated.

### 9.2 Data manipulation – merging datasets

It should be noted that, in general, merges should always be done on the personal identifier (*pid*) which is the unique identifier across all data files for all rounds of the survey.

Script filename: *Program3-CVACS\_Merging\_files\_into\_a\_cross-section.do*

This program creates a cross-sectional dataset for a given survey round, by merging together the Unvaccinated and Derived data files.

## 10 Acknowledgements

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Tom Black

### 10.1 Consultative group

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### 10.3 SALDRU technical team

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Murray Leibbrandt  
Nicola Branson  
Reza Daniels  
Vimal Ranchhod

### 10.4 CVACS data team

Victoria Basopo  
Morne Hoffman  
Julia Tatham

### 10.5 Ask Afrika - Data Collection

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Sanna Fourie  
Jan Lourens  
Sarina de Beer  
Brownyn Erin Penny

## **10.6 Survey sampling and weights**

Ariane Neethling

## **10.7 Metadata production, data publication and user support**

DataFirst

With particular thanks to:

Lynn Woolfrey

Alison Siljeur

## **11 Contact CVACS**

For data-related queries, please contact:

DataFirst Support

[support@data1st.org](mailto:support@data1st.org)

For operational queries, please contact:

CVACS : COVID-19 Vaccine Survey

[cvacs@uct.ac.za](mailto:cvacs@uct.ac.za)

Or follow us on Twitter [@CVACS\\_ZA](https://twitter.com/CVACS_ZA)



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## 13 Appendix – CVACS ethics approval



### Faculty of Commerce

**Private Bag X3, Rondebosch, 7701**  
2.26 Leslie Commerce Building, Upper Campus  
Tel: +27 (0) 21 650 4375/ 5748 Fax: +27 (0) 21 650 4369  
E-mail: [jacques.rousseau@uct.ac.za](mailto:jacques.rousseau@uct.ac.za)  
Internet: [www.uct.ac.za](http://www.uct.ac.za)



@Commerce UCT



UCT Commerce Faculty Office

Brendan Maughan-Brown, PhD (UCT); Katherine Eyal, PhD (UCT)

09 11 2021

School of Economics

University of Cape Town

REF: REC 2021/11/007

CVACS - COVID-19 Vaccine Survey

We are pleased to inform you that your ethics application has been approved. Unless otherwise specified this ethical clearance is valid until 31-Dec-2022 .

Your clearance may be renewed upon application.

Please be aware that you need to notify the Ethics Committee immediately should any aspect of your study regarding the engagement with participants as approved in this application, change. This may include aspects such as changes to the research design, questionnaires, or choice of participants.

The ongoing ethical conduct throughout the duration of the study remains the responsibility of the principal investigator.

We wish you well for your research.

A handwritten signature in black ink, appearing to read 'JRousseau'.

2021.11.09  
09:26:40 +02'00'

Jacques Rousseau  
Commerce Research Ethics Chair  
University of Cape Town  
Commerce Faculty Office  
Room 2.26 | Leslie Commerce Building

Office Telephone: +27 (0)21 650 2695 / 4375

Office Fax: +27 (0)21 650 4369

E-mail: [jacques.rousseau@uct.ac.za](mailto:jacques.rousseau@uct.ac.za)

Website: <http://www.commerce.uct.ac.za/com/Ethics-in-Research>

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