

Kenya - Kenya Multisite Integrated Surveillance of SARS-CoV-2 and other Pathogens, KEMIS II

Dr. Abdhalah Ziraba

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Overview

Identification

ID NUMBER
KEN-APHRC-KEMIS2-2022-v1

Version

VERSION DESCRIPTION

PRODUCTION DATE
2023-08-09

NOTES
This is the first complete version.

Overview

ABSTRACT

The World Health Organization (WHO) emphasizes the relevance of ongoing surveillance in order to achieve global objectives of ending the COVID-19 crisis and its impact. Surveillance plays a crucial role in understanding the pandemic's progression, identifying risk factors for severe illness, and assessing the effects of vaccination and other public health measures. Health and Demographic Surveillance Sites (HDSS) have provided insights into the extent of cumulative infections in Kenya's general population. Previous surveys showed that SARS-CoV-2 infections were widespread in the general population, but with some regional variations. This report presents findings from the third serosurvey conducted between September and December 2022 among residents of two informal settlements in Nairobi - Korogocho and Viwandani - using the Nairobi Urban Health and Demographic Surveillance System (NUHDSS) run by APHRC as the sampling frame from which a random sample of participants is drawn. Similar surveys were also carried out in Kisumu, Kilifi, Siaya, and Kibera in Nairobi.

UNITS OF ANALYSIS

This study analyzed data from blood samples from individual respondents who are residents of Korogocho and Viwandani.

Scope

NOTES

The scope of the KEMIS study includes:

Sociodemographic information: Participants name, education, religion, age, gender, place of residence.

Health information: Access to prevention services, risk of exposure to COVID 19, outmigration and immigration information, vaccination status of children participants, COVID-19 vaccination status, laboratory information including blood sample collection.

KEYWORDS

Serosurveillance, General population, Antibodies, COVID-19 vaccine

Coverage

GEOGRAPHIC COVERAGE

National Coverage

UNIVERSE

The survey covered all the NUHDSS household members (usual residents) from Nairobi (Korogocho and Viwandani).

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Dr. Abdhahah Ziraba	APHRC

OTHER PRODUCER(S)

Name	Affiliation	Role
Maurine Ng'oda		Project implementation
Anne Njeri		Data management
Salma Musa		Community liason

FUNDING

Name	Abbreviation	Role
Bill and Melinda Gates Foundation	BMGF	Funder

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
KEMRI Wellcome Trust- Kilifi team	KWTRP	Collaborators
Korogocho and Viwandani administration	Community	Sensitization and community mobilization
Community Koch FM and Reuben FM	Media	Sensitization and community mobilization
Residents of Korogocho and Viwandani	Community	Study participants
Community field team	APHRC	Data collection

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
African Population and Health Research Centre	APHRC		Project implementation

DATE OF METADATA PRODUCTION

2023-08-09

DDI DOCUMENT VERSION

Version 1.0 (August 2023).

DDI DOCUMENT ID

KEN-APHRC-KEMIS2-2022-v1

Sampling

Sampling Procedure

This study was conducted on a randomly selected population of 850 adults and children living within the health and demographic surveillance system area (HDSS) run by APHRC. We used the Nairobi Urban Health and Demographic Surveillance System (NUHDSS) database as the sampling frame. We collected a single blood sample from each participant (5ml from adults and 2ml from children) and analysed for SARS-CoV-2 antibodies.

Deviations from Sample Design

There were no deviations from the sample design.

Response Rate

100%

Weighting

NA

Questionnaires

Overview

The study used a participants' questionnaire (SARS COV-2 Sero-survey - Questionnaire) to collect information from the participants. The questionnaire was developed in English, and translated to swahili. Information captured in the questionnaire included:

Sociodemographic information: Participants name, education, religion, age, gender, place of residence.

Health information: Access to prevention services, risk of exposure to COVID 19, outmigration and immigration information, vaccination status of children participants, COVID-19 vaccination, laboratory information including blood sample collection and blood grouping. Data collection was conducted electronically. Participants were assigned unique numbers which were used to label blood samples.

Data Collection

Data Collection Dates

Start	End	Cycle
2022-03-08	2022-06-23	N/A

Data Collection Mode

Face-to-face [f2f]

Questionnaires

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Supervision

The data was collected by a team of 12 field staff - including 9 field interviewers, 1 coordinator and 2 lab Techs. This team was coordinated by a research officer. Overall oversight for the project was provided by the PI. The Field interviewers were divided into mobilizers (who conducted consenting at household level) and interviewers who conducted interviews at the site office. Lab activities were conducted by the Lab Technologists.

Data Processing

Data Editing

There was no data entry because the study questionnaire was uploaded to an online platform. Discrepancies realized in the generated database were resolved through consensus in data review meetings. Consultations were made with the PI and the larger KEMRI team on a needs basis.

Other Processing

The blood Samples were centrifuged and serum separated onsite, stored at -80°C at the main lab for later shipment to the Kilifi Wellcome Trust Research Program (KWTRP) laboratories for COVID-19 IgM and IgG antibody analysis.

Data Appraisal

Estimates of Sampling Error

For each HDSS location, the population register was used to select a random sample of residents across all age groups targeting 850 persons in an age-stratified sample of 50 in each 5-year age band between 15-64 years and above and 100 in 5-year band from 0-14 years. This target sample size would yield 300 participants <15 years which would be enough to estimate 1% seroprevalence with a 2% margin of error. It would also give 550 participants in the 15-64-year-age group which would be enough to estimate a seroprevalence of 3-5% with <5% error margin.

File Description

Variable List

Kemis 2(II)

Content	The file contains data on: Sociodemographic information: Participants name, education, religion, age, gender, place of residence. Health information: Access to prevention services, risk of exposure to COVID 19, outmigration and immigration information, vaccination status of children participants, COVID-19 vaccination, laboratory information including blood sample collection and blood grouping.
Cases	851
Variable(s)	189
Structure	Type: Keys: ()
Version	Version 1.0 (August 2023)
Producer	African population and health research center (APHRC)
Missing Data	Missing data was coded as 9999995

Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V1	fk_person		discrete	character	na
V2	fk_study		discrete	character	na
V3	household_id	household id	discrete	character	na
V4	room_id	room id	discrete	character	na
V5	sample_type	individual's sample type	discrete	numeric	na
V6	site_name	individual location	discrete	numeric	na
V7	q9_sub_location	individual sub-location	discrete	numeric	na
V8	q5_res_status_final	residency status:final result	discrete	numeric	5.1 Residency status:
V9	q5_consent	individual consented	discrete	numeric	5.2 Consent: _ (0= No , 1=Yes)
V10	date_updated	date record was updated	discrete	character	na
V11	date_creation	date record was created	discrete	character	na
V13	replace	individual replaced	discrete	numeric	na
V12	week	week of interview	discrete	numeric	na
V14	date_replaced	date of replacement	discrete	character	na
V15	replaced_id	individual id replaced with	contin	numeric	na
V16	apoint_date	date the interview was conducted	discrete	character	na
V17	intvwdate_final	interview date:date interview was initiated	discrete	character	na
V18	q7_birth_date	individual's date of birth	discrete	character	if <5 years, DOB _ _ / _ _ / _ _ (dd/MMM/yy)
V19	new_dob	Date of birth	discrete	character	na
V20	q7_age	q7_age in complete years	contin	numeric	7.1 Estimated age in years: _ _ _
V21	age_group	individual's q7_age group	discrete	numeric	na
V22	age_strata	individual's q7_age strata	discrete	numeric	na

V23	q6_education_level	individual's education level	discrete	numeric	6.4 Education: __ (Fill 0=No formal education; 1=Primary; 2= Secondary; 3= Tertiary)
V24	q6_religion	individual's religion	discrete	numeric	6.5 Religion: __ (0=None, 1= Muslim 2= Catholic, 3=Protestant; 4= Other Christians 5= Traditional religion); 6=No religion, Hindu
V25	q6_religion_other	individual's religion	discrete	numeric	na
V26	q8_gender	individual q8_gender	discrete	numeric	Sex at birth: __ (Fill in 0= Female , 1=Male)
V27	q10_covid_contact	individual had a contact with anyone with suspected or confirmed COVID-19	discrete	numeric	Have you had contact with anyone with a suspected or confirmed COVID-19 or SARS-CoV-2 infection?
V28	q10_contact_month	contact month	discrete	numeric	If yes, month of last contact: __ / __ (MMM/yy)
V29	q10_contact_year	contact year	discrete	numeric	If yes, month of last contact: __ / __ (MMM/yy)
V30	q10_covid_contact_date	Covid contact date	discrete	character	If yes, month of last contact: __ / __ (MMM/yy)
V31	q11_symptoms_threemonths_01	history of fever	discrete	numeric	History of fever : __ 0= No ; 1=Yes
V32	q11_symptoms_threemonths_02	fatigue	discrete	numeric	History of fatigue : __ 0= No ; 1=Yes
V33	q11_symptoms_threemonths_03	pain	discrete	numeric	History of pain : __ 0= No ; 1=Yes
V34	q11_symptoms_threemonths_04	general weakness	discrete	numeric	History of general weakness : __ 0= No ; 1=Yes
V35	q11_symptoms_threemonths_05	diarrhoea	discrete	numeric	History of diarrhoea : __ 0= No ; 1=Yes
V36	q11_symptoms_threemonths_06	cough	discrete	numeric	History of cough : __ 0= No ; 1=Yes
V37	q11_symptoms_threemonths_07	nausea/vomiting	discrete	numeric	History of nausea/vomiting : __ 0= No ; 1=Yes
V38	q11_symptoms_threemonths_08	sore throat	discrete	numeric	History of sore throat : __ 0= No ; 1=Yes
V39	q11_symptoms_threemonths_09	headache	discrete	numeric	History of headache : __ 0= No ; 1=Yes
V40	q11_symptoms_threemonths_10	congestion/runny nose	discrete	numeric	History of congestion/runny nose : __ 0= No ; 1=Yes
V41	q11_symptoms_threemonths_11	chills	discrete	numeric	History of chills : __ 0= No ; 1=Yes
V42	q11_symptoms_threemonths_12	new loss of taste	discrete	numeric	History of new loss of taste : __ 0= No ; 1=Yes
V43	q11_symptoms_threemonths_13	new loss of smell	discrete	numeric	History of new loss of smell : __ 0= No ; 1=Yes
V44	q11_symptoms_threemonths_14	irritability/confusion	discrete	numeric	History of irritability : __ 0= No ; 1=Yes
V45	q11_symptoms_threemonths_15	shortness of breath/difficult in breathing	discrete	numeric	History of shortness of breath/difficulty breathing : __ 0= No ; 1=Yes
V46	q11_symptoms_threemonths_16	other, specify	discrete	numeric	History of any other symptom : __ 0= No ; 1=Yes
V47	q11_symptoms_threemonths_16spy	other symptom-specified	discrete	character	Other, specify
V48	q11_symptoms_threemonths_17	unknown (all)	discrete	numeric	Unknown.
V49	q11_symptoms_threemonths_18	no symptoms_threemonths	discrete	numeric	NO SYMPTOMS
V50	q11_painoption_01	muscular pain	discrete	numeric	muscular pain
V51	q11_painoption_02	chest pain	discrete	numeric	chest pain
V52	q11_painoption_03	abdominal pain	discrete	numeric	abdominal pain
V53	q11_painoption_04	joint pain	discrete	numeric	joint pain

V54	q11_symptoms_twoweeks_01	history of fever	discrete	numeric	Fever
V55	q11_symptoms_twoweeks_02	fatigue	discrete	numeric	Fatigue
V56	q11_symptoms_twoweeks_03	pain	discrete	numeric	Pain
V57	q11_symptoms_twoweeks_04	general weakness	discrete	numeric	General weakness
V58	q11_symptoms_twoweeks_05	diarrhoea	discrete	numeric	Diarrhoea
V59	q11_symptoms_twoweeks_06	cough	discrete	numeric	Cough
V60	q11_symptoms_twoweeks_07	nausea/vomiting	discrete	numeric	Nausea/vomiting
V61	q11_symptoms_twoweeks_08	sore throat	discrete	numeric	Sore throat
V62	q11_symptoms_twoweeks_09	headache	discrete	numeric	Headache
V63	q11_symptoms_twoweeks_10	congestion/runny nose	discrete	numeric	Congestion/runny nose
V64	q11_symptoms_twoweeks_11	chills	discrete	numeric	Chills
V65	q11_symptoms_twoweeks_12	new loss of taste	discrete	numeric	New loss of taste
V66	q11_symptoms_twoweeks_13	new loss of smell	discrete	numeric	New loss of smell
V67	q11_symptoms_twoweeks_14	irritability/confusion	discrete	numeric	Irritability/confusion
V68	q11_symptoms_twoweeks_15	shortness of breath/difficult in breathing	discrete	numeric	Shortness of breath/difficulty in breathing
V69	q11_symptoms_twoweeks_16	other, specify	discrete	numeric	Other, specify
V70	q11_symptoms_twoweeks_16spy	other symptom-specified	discrete	character	Other symptoms specified
V71	q11_symptoms_twoweeks_17	unknown (all)	discrete	numeric	unknown symptoms
V72	q11_symptoms_twoweeks_18	no symptoms_twoweeks	discrete	numeric	No symptoms
V73	q11_pain_options_twoweeks_01	muscular pain	discrete	numeric	Muscular pain
V74	q11_pain_options_twoweeks_02	chest pain	discrete	numeric	Chest pain
V75	q11_pain_options_twoweeks_03	abdominal pain	discrete	numeric	Abdominal pain
V76	q11_pain_options_twoweeks_04	joint pain	discrete	numeric	Joint pain
V77	q12_medical_attention	did any of these q11_symptoms require you to seek medical attention	discrete	numeric	12.1 Did any of these symptoms require you to seek medical attention? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know)
V78	q12_miss_work	did any of these symptoms cause you to miss work	discrete	numeric	12.2 Did any of these symptoms cause you to miss work? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know)
V188	q12_hospitalized	did any of these symptoms require you to be hospitalised	discrete	numeric	12.3 Did any of these symptoms require you to be hospitalised? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know)
V79	q13_hhm_sick	Anybody in the household has been sick	discrete	numeric	In the past 3 months, has anybody in your household been sick? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know)
V80	q13_hhm_symptoms_01	history of fever	discrete	numeric	History of fever/chills
V81	q13_hhm_symptoms_02	fatigue	discrete	numeric	Fatigue
V82	q13_hhm_symptoms_03	pain	discrete	numeric	Pain
V83	q13_hhm_symptoms_04	general weakness	discrete	numeric	General weakness
V84	q13_hhm_symptoms_05	diarrhoea	discrete	numeric	Diarrhoea
V85	q13_hhm_symptoms_06	cough	discrete	numeric	Cough
V86	q13_hhm_symptoms_07	nausea/vomiting	discrete	numeric	Nausea/vomiting
V87	q13_hhm_symptoms_08	sore throat	discrete	numeric	Sore throat
V88	q13_hhm_symptoms_09	headache	discrete	numeric	Headache
V89	q13_hhm_symptoms_10	congestion/runny nose	discrete	numeric	Congestion/runny noses

V90	q13_hhm_symptoms_11	chills	discrete	numeric	Chills
V91	q13_hhm_symptoms_12	new loss of taste	discrete	numeric	New loss of taste
V92	q13_hhm_symptoms_13	new loss of smell	discrete	numeric	New loss of smell
V93	q13_hhm_symptoms_14	irritability/confusion	discrete	numeric	Irritability/confusion
V94	q13_hhm_symptoms_15	shortness of breath/difficult in breathing	discrete	numeric	Shortness of breath/difficulty in breathing
V95	q13_hhm_symptoms_16	other, specify	discrete	numeric	Other, specify
V96	q13_hhm_symptoms_16spy	other symptom-specified	discrete	character	other symptoms specified
V97	q13_hhm_symptoms_17	unknown (all)	discrete	numeric	Unknown (all)
V98	q13_hhm_symptoms_18	no symptoms_h	discrete	numeric	No symptom
V99	q13_hhm_painoption_01	muscular pain	discrete	numeric	Muscular pain
V100	q13_hhm_painoption_02	chest pain	discrete	numeric	Chest pain
V101	q13_hhm_painoption_03	abdominal pain	discrete	numeric	Abdominal pain
V102	q13_hhm_painoption_04	joint pain	discrete	numeric	Joint pain
V103	q14_medical_attention_h	did any of these q11_symptoms require you to seek medical attention	discrete	numeric	14.1 Did any of these symptoms require this household member to seek medical attention? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know)
V104	q14_miss_work_h	did any of these symptoms cause you to miss work	discrete	numeric	14.2 Did any of these symptoms cause the household member to miss work? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know, 3=Not applicable)
V105	q14_hospitalized_h	did any of these symptoms require you to be hospitalised	discrete	numeric	13.3 Did any of these symptoms require the household member to be hospitalised? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know, 3=Not applicable)
V106	q14_covid_symptoms	symptoms/illness construed to be COVID-19	discrete	numeric	13.3 Were the symptoms/illness construed to be COVID-19 (clinical lab confirmed)? 1- Yes; 2=No 3: Don't know
V107	q15a_hhm_died	In the last 24 months, has any member of your household died	discrete	numeric	In the last 24 months, has any member of your household died? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know
V108	q15b_hhm_died_gender1	gender of the deceased person in the hh in the last 24 months	discrete	numeric	If yes, indicate sex and age of the deceased _____
V109	q15b_hhm_died_age1	age of the deceased person in the hh in the last 24 months	contin	numeric	If yes, indicate sex and age of the deceased _____
V110	q15b_hhm_died_gender2	gender of the deceased person in the hh in the last 24 months	discrete	numeric	If yes, indicate sex and age of the deceased _____
V111	q15b_hhm_died_age2	age of the deceased person in the hh in the last 24 months	discrete	character	If yes, indicate sex and age of the deceased _____
V112	q15c_hhm_death_b4_covid	In the last 24 months, has any member of your household died	discrete	numeric	In the last 24 months, has any member of your household died? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know
V113	q15d_covid_died_gender1	gender of the deceased person within 2 years before COVID-19	discrete	numeric	If yes, indicate sex and age of the deceased _____
V114	q15d_covid_died_age1	age of the deceased person within 2 years before COVID-19	contin	numeric	If yes, indicate sex and age of the deceased _____
V115	q15d_covid_died_gender2	gender of the deceased person within 2 years before COVID-19	discrete	numeric	If yes, indicate sex and age of the deceased _____

V116	q15d_covid_died_age2	age of the deceased person within 2 years before COVID-19	discrete	character	If yes, indicate sex and age of the deceased
V117	q16a_covid_vaccine	Have you had a COVID-19 vaccine	discrete	numeric	16.1 Have you had a COVID-19 vaccine? <input type="checkbox"/> (Fill in 0= No , 1=Yes, 2= Don't know)
V118	q16a_covid_vaccine_type1	First COVID vaccine type	discrete	numeric	16.2 COVID vaccine type? (1 - AstraZeneca, 2 - Pfizer, 3- Johnson & Johnson, 4 -Moderna, 5 -SputnikV, 6- Sinopharm 7- Others....(specify))
V119	q16a_vaccine_type_other1	First COVID vaccine type specified	discrete	character	Other...Specify
V120	q16a_covid_vaccine_type2	Second COVID vaccine type	discrete	numeric	16.2 COVID vaccine type? (1 - AstraZeneca, 2 - Pfizer, 3- Johnson & Johnson, 4 -Moderna, 5 -SputnikV, 6- Sinopharm 7- Others....(specify))
V121	q16a_vaccine_type_other2	Second COVID vaccine type specified	discrete	character	Other...specify
V122	q16a_covid_vaccine_type3	Third COVID vaccine type	discrete	numeric	16.2 COVID vaccine type? (1 - AstraZeneca, 2 - Pfizer, 3- Johnson & Johnson, 4 -Moderna, 5 -SputnikV, 6- Sinopharm 7- Others....(specify))
V123	q16a_vaccine_type_other3	Third COVID vaccine type specified	discrete	character	Other...specified
V124	q16a_number_doses	Number of the doses given	discrete	numeric	16.3 How many doses? <input type="checkbox"/>
V126	q16a_dose1date	Date the first dose of the covid vaccine was administered	discrete	character	b) Dose 1 type: <input type="checkbox"/> date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_
V127	q16a_dose2date	Date the second dose of the covid vaccine was administered	discrete	character	c) Dose 2 type: <input type="checkbox"/> date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_
V128	q16a_dose3date	Date the third dose of the covid vaccine was administered	discrete	character	d) Dose 3 type: <input type="checkbox"/> date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_
V125	q16_vaccine_status	COVID vaccine status	discrete	numeric	na
V129	q16a_confirmed_vaccination	vaccination confirmed through	discrete	numeric	16.4 Vaccination confirmed by: 1=Vaccination Card; 2= SMS; 3= Verbal report; 4=Other(specify).....
V130	q16a_confirmed_vaccination_spy	vaccination confirmed through	discrete	character	16.4 Vaccination confirmed by: 1=Vaccination Card; 2= SMS; 3= Verbal report; 4=Other(specify).....
V131	q16b_reason_no_vaccines	Reason for not getting the vaccine COVID-19 vaccine	discrete	numeric	If no to 16a above, what is your reason for not getting the vaccine?
V132	q16b_reason_no_vaccines_spy	Reason for not getting the vaccine COVID-19 vaccine	discrete	character	If no to 16a above, what is your reason for not getting the vaccine? (tick all that apply)
V133	q16c_covid_recomendations	Recommend COVID-19 vaccination to other people	discrete	numeric	Would you recommend COVID-19 vaccination to other people?
V134	q16d_not_sure_reason	If NO/Not sure, why not	discrete	character	If NO/Not sure, why not?
V135	q17a_covid_risk	rate your own risk of getting infected with the virus that causes COVID-19	discrete	numeric	How do you rate your own risk of getting infected with the virus that causes COVID-19
V136	q17b_sarscov_risk	how worried are you about getting SAR-CoV-2 and its outcomes	discrete	numeric	If there is a risk of getting COVID-19, how worried are you about getting SAR-CoV-2 and its outcomes?
V137	q18a_test_positive	Covid test results	discrete	numeric	Have you ever tested for COVID?)? <input type="checkbox"/> (Fill in 0= No , 1=Yes)

V138	q18b_test_done	How was the testing done	discrete	numeric	How was the testing done?
V139	q19a_hh_members_left	Has any of your household member(s) left this household in the last 6 months	discrete	numeric	18.1 Has any of your household member(s) left this household in the last 6 months?
V140	q30_outmigration_destination	where did they migrate to	discrete	numeric	18.1.1. If yes, where did they migrate to?
V141	q30_outmigration_reason	Reason for outmigration	discrete	numeric	18.1.2. Reason for outmigration _____
V142	q30_outmigration_reason_spy	Reason for outmigration specified	discrete	character	Other reason...specify
V143	q30_inmigrant_member	Has any of your household member(s) left this household in the last 6 months	discrete	numeric	18.2 Has any member joined your household in the last 6 months?
V144	q30_inmigrant_origin	where did they migrate from	discrete	numeric	18.2.1. If yes, where did they in migrate from?
V145	q30_inmigration_reason	Reason for immigration	discrete	numeric	18.2.2. Reason for immigration _____
V146	q30_inmigration_reason_spy	Reason for immigration specified	discrete	character	Other reason for immigration, specified
V147	q20a_loss_income	Has any of your hh members lost a job or source of livelihood in the last 6 mont	discrete	numeric	19.1 Has any of your household members lost a job or source of livelihood in the last 6 months?
V148	q20b_reason_joblost	do you know why the job was lost	discrete	character	19.2 If you answered 1 or 2, do you know why the job was lost _____
V149	q21a_healthcare_access	Have you been unable to access and use healthcare services you would normally ha	discrete	numeric	20.1 Have you been unable to access and use healthcare services you would normally have access to in the last 6 months? (Fill in 0= No , 1=Yes, 2= Don't know)
V150	q21b_services_missed_01	Antenatal care	discrete	numeric	Antenatal care
V151	q21b_services_missed_02	Delivery at a health facility	discrete	numeric	Delivery at the health facility
V152	q21b_services_missed_03	Immunization	discrete	numeric	Immunization
V153	q21b_services_missed_04	Consultation/treatment for chronic conditions e.g diabetes, hypertension, stroke	discrete	numeric	Consultation/treatment for chronic conditions
V154	q21c_missed_service_reason	Reason for missed service	discrete	character	Reason for missed service? _____
V155	q22_bcg_scar	Does the participant have a BCG scar	discrete	numeric	21.1 Does the participant have a BCG scar? __ (Fill in 0= No , 1=Yes) __ (Fill in 0= No , 1=Yes, 2= Don't know)
V156	q23a_vaccine_records	Do you have vaccination records	discrete	numeric	22.1 Do you have vaccination records for (child's Name)? __ (Fill in 0= No , 1=Yes)
V157	q23_bcg	BCG	discrete	numeric	22.2 BCG __ if yes, fill in date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_
V158	q23_date_vaccinated_bcg	Date BCG was administered	discrete	character	22.2 BCG __ if yes, fill in date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_
V159	q23_penta1	PENTA 1	discrete	numeric	22.3 Penta 1 __ if yes, fill in date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_
V160	q23_date_vaccinated_penta1	Date PENTA1 was administered	discrete	character	22.3 Penta 1 __ if yes, fill in date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_

V161	q23_penta2	PENTA 2	discrete	numeric	22.4 Penta 2 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V162	q23_date_vaccinated_penta2	Date PENTA2 was administered	discrete	character	22.4 Penta 2 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V163	q23_penta3	PENTA 3	discrete	numeric	22.5 Penta 3 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V164	q23_date_vaccinated_penta3	Date PENTA2 was administered	discrete	character	22.5 Penta 3 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V165	q23_pcv1	PCV 1	discrete	numeric	22.6 PCV 1 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V166	q23_date_vaccinated_pcv1	Date PCV1 was administered	discrete	character	22.6 PCV 1 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V167	q23_pcv2	PCV 2	discrete	numeric	22.7 PCV 2 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V168	q23_date_vaccinated_pcv2	Date PCV2 was administered	discrete	character	22.7 PCV 2 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V169	q23_pcv3	PCV 3	discrete	numeric	22.8 PCV 3 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V170	q23_date_vaccinated_pcv3	Date PCV3 was administered	discrete	character	22.8 PCV 3 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V171	q23_mcv1	MCV 1	discrete	numeric	22.9 MCV1 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V172	q23_date_vaccinated_mcv1	Date MCV1 was administered	discrete	character	22.9 MCV1 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V173	q23_mcv2	MCV 2	discrete	numeric	22.10 MCV2 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V174	q23_date_vaccinated_mcv2	Date MCV2 was administered	discrete	character	22.10 MCV2 <input type="checkbox"/> if yes, fill in date <input type="text"/> _d_ <input type="text"/> _d_ / <input type="text"/> _m_ <input type="text"/> _m_ / <input type="text"/> _y_ <input type="text"/> _y_
V175	q24_reason_card_miss	Reason why vaccination card is not available	discrete	numeric	22.11 Reason why vaccination card is not available. <input type="text"/>
V176	q26_sample_collected	Blood sample collected	discrete	numeric	Sample collected
V177	q26_sample_date_collected	Date blood sample was collected	discrete	character	Date of sample collection (hh:mm; 24hr clock)
V178	q26_time_blood	Time the blood sample was collected	discrete	character	Time of sample collection (hh:mm; 24hr clock)
V179	q26_blood_group_result	Participant,s blood group	discrete	character	Blood group test done?
V180	spikeOD	Spike OD	contin	numeric	na
V181	spikeNegOD	Neg OD	contin	numeric	na
V182	spikeODratio	Spike_OD_ratio	contin	numeric	na
V183	nucOD	Nuc OD	contin	numeric	na
V184	nucNegOD	Neg OD	contin	numeric	na
V185	nucODratio	Nuc_OD_ratio	contin	numeric	na
V186	spikeseropos	Spikes sero results	discrete	numeric	na
V187	nucseropos		discrete	numeric	na
V189	survey_round	Phase when data was collected	discrete	numeric	

(fk_person) File: Kemis 2(II)

Overview

Type: Discrete
Format: character
Width: 14

Valid cases: 851
Invalid: 0

Description

Unique number assigned to the participant

Universe

Participant selected for the study

Source of information

Laboratory bar codes

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

(fk_study) File: Kemis 2(II)

Overview

Type: Discrete
Format: character
Width: 7

Valid cases: 851
Invalid: 0

Description

Unique number assigned to the participant

Universe

Participant selected for the study

Source of information

Laboratory bar codes

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

household id (household_id) File: Kemis 2(II)

Overview

Type: Discrete
Format: character
Width: 5

Valid cases: 851
Invalid: 0

Description

Unique number assigned to the household from the DSS numbering.

Universe

Households selected for the study.

Source of information

DSS numbering.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

room id (room_id)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 8

Valid cases: 851

Invalid: 0

Description

DSS number obtained from the door.

Universe

Selected rooms for the study.

Source of information

APHRC DSS room numbering.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual's sample type (sample_type)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 851

Invalid: 0

Description

We had two types of samples to take care of individuals not found. Sample was either original or back up for replacement.

Universe

NUHDSS residents

Source of information

DSS register.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual location (site_name)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 851
 Invalid: 0

Description

Study was conducted in two sites - Korogocho and Viwandani.

Universe

NUHDSS.

Source of information

DSS register.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual sub-location (q9_sub_location)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-16

Valid cases: 267
 Invalid: 584

Description

The study was conducted in two sites- Korogocho and Viwandani.

Universe

NUHDSS

Source of information

DSS register.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

residency status:final result (q5_res_status_final)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 22
 Decimals: 0
 Range: -9-9

Valid cases: 851
 Invalid: 0

Description

This defines the outcome of the household visit.

Universe

Selected participants.

Source of information

Field interviewer.

Pre question

na

Literal question

5.1 Residency status:

Post question

na

Interviewer instructions

na

individual consented (q5_consent)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-3

Valid cases: 851
 Invalid: 0

Description

Permission to take part in the study.

Universe

Selected participants.

Source of information

Interview.

Pre question

na

Literal question

5.2 Consent: |__| (0= No , 1=Yes)

Post question

na

Interviewer instructions

na

date record was updated (date_updated)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 851
Format: character	Minimum: NaN
Width: 11	Maximum: NaN
Description	
This is the date of the interview.	
Universe	
na	
Source of information	
Field interviewer.	
Pre question	
na	
Literal question	
na	
Post question	
na	
Interviewer instructions	
na	

date record was created (date_creation)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 851
Format: character	Minimum: NaN
Width: 11	Maximum: NaN
Description	
This is the date of the interview.	
Universe	
na	
Source of information	
Field interviewer.	
Pre question	
na	
Literal question	
na	
Post question	
na	
Interviewer instructions	
na	

individual replaced (replace)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 851
 Invalid: 0

Description

Individuals not found in the original sample list and replaced from the back up sample.

Universe

Selected study participants.

Source of information

Interview observation.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

week of interview (week)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-16

Valid cases: 851
 Invalid: 0

Description

This is the week that the interview was conducted.

Universe

na

Source of information

Field interviewer.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

date of replacement (date_replaced)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 19

Valid cases: 39
 Invalid: 0

Description

Date on which replacement was done.

Universe

na

Source of information

Sample lists.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual id replaced with (replaced_id)

File: Kemis 2(II)

Overview

Type: Continuous

Format: numeric

Width: 8

Decimals: 0

Range: 7520-9082

Valid cases: 39

Invalid: 812

Minimum: 7520

Maximum: 9082

Mean: 8288.1

Standard deviation: 471.6

Description

New ID from the back up list.

Universe

na

Source of information

Back up list

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

date the interview was conducted (apoint_date)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 10

Valid cases: 851

Invalid: 0

Description

Date of the interview.

Universe

Participants selected for the study.

Source of information

Sample list.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

interview date:date interview was initiated (intvwdate_final)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 11

Valid cases: 851

Minimum: NaN

Maximum: NaN

Description

Date of the interview.

Universe

Participants selected for the study.

Source of information

Field interviewer.

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual's date of birth (q7_birth_date)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 11

Valid cases: 851

Minimum: NaN

Maximum: NaN

Description

Participant's date of birth.

Universe

Individual selected from a household (applicable for those <5 years).

Source of information

Household member.

Pre question

na

Literal question

if <5 years, DOB |_|_|/|_|_|_|/|_|_| (dd/MMM/yy)

Post question

na

Interviewer instructions

na

Date of birth (new_dob)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 111
Format: character	Invalid: 0
Width: 10	
Description	
na	
Universe	
na	
Source of information	
na	
Pre question	
na	
Literal question	
na	
Post question	
na	
Interviewer instructions	
na	

q7_age in complete years (q7_age)

File: Kemis 2(II)

Overview	
Type: Continuous	Valid cases: 851
Format: numeric	Invalid: 0
Width: 9	Minimum: 1
Decimals: 0	Maximum: 91
Range: 1-91	Mean: 31.2
	Standard deviation: 21.8
Description	
Participant's age in complete years.	
Universe	
Household member selected for study.	
Source of information	
Household member.	
Pre question	
na	
Literal question	
7.1 Estimated age in years: _ _ _	
Post question	
7.2 if <5 years, DOB _ _ / _ _ / _ _ (dd/MMM/yy)	
Interviewer instructions	
na	

individual's q7_age group (age_group)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 18
 Decimals: 0
 Range: 1-14

Valid cases: 851
 Invalid: 0

Description

na

Universe

na

Source of information

na

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual's q7_age strata (age_strata)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 18
 Decimals: 0
 Range: 1-14

Valid cases: 851
 Invalid: 0

Description

na

Universe

na

Source of information

na

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual's education level (q6_education_level)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 20
 Decimals: 0
 Range: 0-888

Valid cases: 851
 Invalid: 0

Description

School level of study participants.

Universe

Household member selected for the study.

Source of information

Household member.

Pre question

na

Literal question

6.4 Education: |__| (Fill 0=No formal education; 1=Primary; 2= Secondary; 3= Tertiary)

Post question

na

Interviewer instructions

na

individual's religion (q6_religion)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 20
Decimals: 0
Range: 0-888

Valid cases: 851
Invalid: 0

Description

Individual's religion.

Universe

Selected study participant.

Source of information

Household member selected for the study/participants caregiver for children.

Pre question

na

Literal question

6.5 Religion: |__| (0=None, 1= Muslim 2= Catholic, 3=Protestant; 4= Other Christians 5= Traditional religion); 6=No religion, Hindu

Post question

na

Interviewer instructions

na

individual's religion (q6_religion_other)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 8
Decimals: 0

Valid cases: 0
Invalid: 851

Description

na

Universe

na

Source of information

na

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

individual q8_gender (q8_gender)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 0-2

Valid cases: 851

Invalid: 0

Description

Participant's gender.

Universe

Household member selected for the study.

Source of information

Household member selected for the study/participants caregiver for children.

Pre question

na

Literal question

Sex at birth:|_| (Fill in 0= Female , 1=Male)

Post question

na

Interviewer instructions

na

individual had a contact with anyone with suspected or confirmed COVID-19 (q10_covid_contact)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 10

Decimals: 0

Range: 0-888

Valid cases: 851

Invalid: 0

Description

If individual had a contact with anyone with a suspected or confirmed COVID-19 or SARS-CoV-2 infection?

Universe

Household members selected from the study.

Source of information

Household member.

Pre question

na

Literal question

Have you had contact with anyone with a suspected or confirmed COVID-19 or SARS-CoV-2 infection?

Post question

na

Interviewer instructions

na

contact month (q10_contact_month)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-12

Valid cases: 41
 Invalid: 810

Description

Month of the contact.

Universe

Participants sampled for the study.

Source of information

Household member.

Pre question

na

Literal question

If yes, month of last contact: |_|_|_|/|_|_| (MMM/yy)

Post question

na

Interviewer instructions

na

contact year (q10_contact_year)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 2020-2022

Valid cases: 41
 Invalid: 810

Description

Year of the contact.

Universe

Participants selected for the study/caregiver to children participants.

Source of information

Household member.

Pre question

na

Literal question

If yes, month of last contact: |_|_|_|/|_|_| (MMM/yy)

Post question

na

Interviewer instructions

na

Covid contact date (q10_covid_contact_date)

File: Kemis 2(II)

Overview

Type: Discrete

Valid cases: 41

Format: character

Invalid: 0

Width: 8

Description

Date of the contact.

Universe

Participants selected for the study/caregiver to children participants.

Source of information

Household member.

Pre question

na

Literal question

If yes, month of last contact: |_|_|_|/|_|_| (MMM/yy)

Post question

na

Interviewer instructions

na

history of fever (q11_symptoms_threemonths_01)

File: Kemis 2(II)

Overview

Type: Discrete

Valid cases: 851

Format: numeric

Invalid: 0

Width: 9

Decimals: 0

Range: 1-888

Description

History of fever as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of fever :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

fatigue (q11_symptoms_threemonths_02)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

History of fatigue as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of fatigue :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

pain (q11_symptoms_threemonths_03)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

History of pain as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of pain :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

general weakness (q11_symptoms_threemonths_04)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

History of general weakness as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of general weakness :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

diarrhoea (q11_symptoms_threemonths_05)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

History of diarrhoea as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of diarrhoea :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

cough (q11_symptoms_threemonths_06)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

History of cough as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of cough :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

nausea/vomiting (q11_symptoms_threemonths_07)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-888

Valid cases: 851
Invalid: 0

Description

History of nausea/vomiting as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of nausea/vomiting :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

sore throat (q11_symptoms_threemonths_08)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-888

Valid cases: 851
Invalid: 0

Description

History of sore throat as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of sore throat :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

headache (q11_symptoms_threemonths_09)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

History of headache as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of headache :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

congestion/runny nose (q11_symptoms_threemonths_10)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

History of congestion/runny nose as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of congestion/runny nose :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

chills (q11_symptoms_threemonths_11)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

History of chills as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of chills :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

new loss of taste (q11_symptoms_threemonths_12)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

History of new loss of taste as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of new loss of taste :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

new loss of smell (q11_symptoms_threemonths_13)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

History of new loss of smell as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of new loss of smell :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

irritability/confusion (q11_symptoms_threemonths_14)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

History of irritability as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of irritability :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

shortness of breath/difficult in breathing (q11_symptoms_threemonths_15) File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-888

Valid cases: 851
Invalid: 0

Description

History of shortness of breath/difficulty in breathing as a symptom in the last three months.

Universe

Household member selected for the study

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of shortness of breath/difficulty breathing :|_| 0= No ; 1=Yes

Post question

na

Interviewer instructions

check all reported symptoms

other, specify (q11_symptoms_threemonths_16) File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-888

Valid cases: 851
Invalid: 0

Description

History of any other symptom in the last three months.

Universe

Household member selected for the study.

Source of information

Household member.

Pre question

In the past 3 months, have you experienced any of the following

Literal question

History of any other symptom :|_| 0= No ; 1=Yes

Post question

Specify

Interviewer instructions

check all reported symptoms

other symptom-specified (q11_symptoms_threemonths_16spy) File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 32

Valid cases: 60
 Invalid: 0

Description

Other symptoms specified.

Universe

Household member selected for the study.

Source of information

Household member.

Pre question

In the past 3 months have you experienced any of the following

Literal question

Other, specify

Post question

na

Interviewer instructions

check all reported symptoms

unknown (all) (q11_symptoms_threemonths_17)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

Any unknown symptom in the past three months

Universe

Household member selected for the study.

Source of information

Household member.

Pre question

In the past 3 months have you experienced any of the following

Literal question

Unknown.

Post question

all

Interviewer instructions

check all reported symptoms

no symptoms_threemonths (q11_symptoms_threemonths_18)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

No symptoms in the past three months

Universe

Household member selected for the study

Source of information

Household member

Pre question

In the past 3 months have you experienced any of the following

Literal question

NO SYMPTOMS

Post question

na

Interviewer instructions

check all reported symptoms

muscular pain (q11_painoption_01)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 212
 Invalid: 639

Description

history of muscular pain as a symptom in the last three months

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 3 months, have you experienced any of the following

Literal question

muscular pain

Post question

na

Interviewer instructions

check all reported symptoms

chest pain (q11_painoption_02)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 212
 Invalid: 639

Description

history of chest pain as a symptom in the last three months

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 3 months, have you experienced any of the following

Literal question

chest pain

Post question

na

Interviewer instructions

check all reported symptoms

abdominal pain (q11_painoption_03)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 212

Invalid: 639

Description

history of abdominal pain as a symptom in the last three months

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 3 months, have you experienced any of the following

Literal question

abdominal pain

Post question

na

Interviewer instructions

check all reported symptoms

joint pain (q11_painoption_04)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 212

Invalid: 639

Description

history of joint pain as a symptom in the last three months

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 3 months, have you experienced any of the following

Literal question

joint pain

Post question

na

Interviewer instructions

check all reported symptoms

history of fever (q11_symptoms_twoweeks_01)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of fever as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Fever

Post question

na

Interviewer instructions

check all reported symptoms

fatigue (q11_symptoms_twoweeks_02)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of fatigue as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Fatigue

Post question

na

Interviewer instructions

check all reported symptoms

pain (q11_symptoms_twoweeks_03)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of pain as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Pain

Post question

na

Interviewer instructions

check all reported symptoms

general weakness (q11_symptoms_twoweeks_04)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of general weakness as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

General weakness

Post question

na

Interviewer instructions

check all reported symptoms

diarrhoea (q11_symptoms_twoweeks_05)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of diarrhoea as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Diarrhoea

Post question

na

Interviewer instructions

check all reported symptoms

cough (q11_symptoms_twoweeks_06)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of cough as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Cough

Post question

na

Interviewer instructions

check all reported symptoms

nausea/vomiting (q11_symptoms_twoweeks_07)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of nausea/vomiting as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Nausea/vomiting

Post question

na

Interviewer instructions

check all reported symptoms

sore throat (q11_symptoms_twoweeks_08)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of sore throat as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Sore throat

Post question

na

Interviewer instructions

check all reported symptoms

headache (q11_symptoms_twoweeks_09)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of headache as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Headache

Post question

na

Interviewer instructions

check all reported symptoms

congestion/runny nose (q11_symptoms_twoweeks_10)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-888

Valid cases: 851
Invalid: 0

Description

history of congestion/runny nose as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Congestion/runny nose

Post question

na

Interviewer instructions

check all reported symptoms

chills (q11_symptoms_twoweeks_11)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-888

Valid cases: 851
Invalid: 0

Description

history of chills as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Chills

Post question

na

Interviewer instructions

check all reported symptoms

new loss of taste (q11_symptoms_twoweeks_12)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

history of new loss of taste as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

New loss of taste

Post question

na

Interviewer instructions

check all reported symptoms

new loss of smell (q11_symptoms_twoweeks_13)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

history of new loss of smell as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

New loss of smell

Post question

na

Interviewer instructions

check all reported symptoms

irritability/confusion (q11_symptoms_twoweeks_14)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

history of irritability as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Irritability/confusion

Post question

na

Interviewer instructions

check all reported symptoms

shortness of breath/difficult in breathing

(q11_symptoms_twoweeks_15)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-888

Valid cases: 851

Invalid: 0

Description

history of shortness of breath/difficulty breathing as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Shortness of breath/difficulty in breathing

Post question

na

Interviewer instructions

check all reported symptoms

other, specify (q11_symptoms_twoweeks_16)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

history of any other symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Other, specify

Post question

na

Interviewer instructions

check all reported symptoms

other symptom-specified (q11_symptoms_twoweeks_16spy)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 31

Valid cases: 3
 Invalid: 0

Description

other symptom specified

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Other symptoms specified

Post question

na

Interviewer instructions

check all reported symptoms

unknown (all) (q11_symptoms_twoweeks_17)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

other symptom specified

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

unknown symptoms

Post question

na

Interviewer instructions

check all reported symptoms

no symptoms_twoweeks (q11_symptoms_twoweeks_18)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-888

Valid cases: 851
 Invalid: 0

Description

No symptoms in the past two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

No symptoms

Post question

na

Interviewer instructions

check all reported symptoms

muscular pain (q11_pain_options_twoweeks_01)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 114
 Invalid: 737

Description

history of muscular pain as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Muscular pain

Post question

na

Interviewer instructions

check all reported symptoms

chest pain (q11_pain_options_twoweeks_02)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 114
 Invalid: 737

Description

history of chest pain as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Chest pain

Post question

na

Interviewer instructions

check all reported symptoms

abdominal pain (q11_pain_options_twoweeks_03)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 114
 Invalid: 737

Description

history of abdominal pain as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Abdominal pain

Interviewer instructions

check all reported symptoms

joint pain (q11_pain_options_twoweeks_04)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 114

Invalid: 737

Description

history of joint pain as a symptom in the last two weeks

Universe

household member selected for the study

Source of information

household member

Pre question

In the past 2 weeks, have you experienced any of the following

Literal question

Joint pain

Interviewer instructions

check all reported symptoms

did any of these q11_symptoms require you to seek medical attention (q12_medical_attention)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 10

Decimals: 0

Range: 0-98

Valid cases: 641

Invalid: 210

Description

did any of the symptoms require medical attention

Universe

household member selected for the study

Source of information

household member

Pre question

If you answered yes, Q11

Literal question

12.1 Did any of these symptoms require you to seek medical attention? (Fill in 0= No , 1=Yes, 2= Don't know)

Post question

na

Interviewer instructions

na

did any of these symptoms cause you to miss work (q12_miss_work)
File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 0-98

Valid cases: 641
Invalid: 210

Description

if symptoms caused person to miss work

Universe

household member selected for the study

Source of information

household member

Pre question

if you answered yes, Q11

Literal question

12.2 Did any of these symptoms cause you to miss work? (Fill in 0= No , 1=Yes, 2= Don't know)

Post question

na

Interviewer instructions

na

did any of these symptoms require you to be hospitalised
(q12_hospitalized)
File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 0-98

Valid cases: 641
Invalid: 210

Description

if symptoms required hospitalization

Universe

household member selected for the study

Source of information

household member

Pre question

if you answered yes, Q11

Literal question

12.3 Did any of these symptoms require you to be hospitalised? (Fill in 0= No , 1=Yes, 2= Don't know)

Post question

na

Interviewer instructions

na

Anybody in the household has been sick (q13_hhm_sick)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 1-98

Valid cases: 850
 Invalid: 1

Description

Presence of any household member who has been sick

Universe

households selected for the study

Source of information

household member selected for the study

Pre question

na

Literal question

In the past 3 months, has anybody in your household been sick? (Fill in 0= No , 1=Yes, 2= Don't know)

Post question

If yes, did they have any of the following symptoms

Interviewer instructions

Check all reported symptoms:

history of fever (q13_hhm_symptoms_01)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of fever symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

History of fever/chills

Post question

na

Interviewer instructions

na

fatigue (q13_hhm_symptoms_02)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of fatigue symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Fatigue

Post question

na

Interviewer instructions

na

pain (q13_hhm_symptoms_03)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of pain symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Pain

Post question

na

Interviewer instructions

na

general weakness (q13_hhm_symptoms_04)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of general weakness symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

General weakness

Post question

na

Interviewer instructions

na

diarrhoea (q13_hhm_symptoms_05)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of diarrhoea symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Diarrhoea

Post question

na

Interviewer instructions

na

cough (q13_hhm_symptoms_06)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of cough symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Cough

Post question

na

Interviewer instructions

na

nausea/vomiting (q13_hhm_symptoms_07)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-2

Valid cases: 295
Invalid: 556

Description

Presence of nausea/vomiting symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Nausea/vomiting

Post question

na

Interviewer instructions

na

sore throat (q13_hhm_symptoms_08)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-2

Valid cases: 295
Invalid: 556

Description

Presence of sore throat symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Sore throat

Post question

na

Interviewer instructions

na

headache (q13_hhm_symptoms_09)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 295

Invalid: 556

Description

Presence of headache symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Headache

Post question

na

Interviewer instructions

na

congestion/runny nose (q13_hhm_symptoms_10)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 295

Invalid: 556

Description

Presence of congestion/runny nose symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Congestion/runny noses

Post question

na

Interviewer instructions

na

chills (q13_hhm_symptoms_11)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 295

Invalid: 556

Description

Presence of chills symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Chills

Post question

na

Interviewer instructions

na

new loss of taste (q13_hhm_symptoms_12)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 295

Invalid: 556

Description

Presence of new loss of taste symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

New loss of taste

Post question

na

Interviewer instructions

na

new loss of smell (q13_hhm_symptoms_13)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of new loss of smell symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

New loss of smell

Post question

na

Interviewer instructions

na

irritability/confusion (q13_hhm_symptoms_14)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of irritability/confusion symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Irritability/confusion

Post question

na

Interviewer instructions

na

shortness of breath/difficult in breathing (q13_hhm_symptoms_15)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of shortness of breath/difficulty in breathing symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Shortness of breath/difficulty in breathing

Post question

na

Interviewer instructions

na

other, specify (q13_hhm_symptoms_16)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Presence of any other symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Other, specify

Post question

na

Interviewer instructions

na

other symptom-specified (q13_hhm_symptoms_16spy)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 32

Valid cases: 37
 Invalid: 0

Description

other symptoms specified for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

other symptoms specified

Post question

na

Interviewer instructions

na

unknown (all) (q13_hhm_symptoms_17)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

Any unknown symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Unknown (all)

Post question

na

Interviewer instructions

na

no symptoms_h (q13_hhm_symptoms_18)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 295
 Invalid: 556

Description

No symptoms among household members who were reported to be sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

No symptom

Post question

na

Interviewer instructions

na

muscular pain (q13_hhm_painoption_01)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-2

Valid cases: 87
Invalid: 764

Description

Presence of muscular pain symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Muscular pain

Post question

na

Interviewer instructions

na

chest pain (q13_hhm_painoption_02)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-2

Valid cases: 87
Invalid: 764

Description

Presence of chest pain symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Chest pain

Post question

na

Interviewer instructions

na

abdominal pain (q13_hhm_painoption_03)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 87

Invalid: 764

Description

Presence of abdominal pain symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Abdominal pain

Post question

na

Interviewer instructions

na

joint pain (q13_hhm_painoption_04)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 9

Decimals: 0

Range: 1-2

Valid cases: 87

Invalid: 764

Description

Presence of joint pain symptoms for the household members who had been sick in the past 3 months

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

If yes, did they have any of the following symptoms (check all reported symptoms):

Literal question

Joint pain

Post question

na

Interviewer instructions

na

did any of these q11_symptoms require you to seek medical attention
(q14_medical_attention_h)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 0-98

Valid cases: 291
Invalid: 560

Description

Household member forced to be hospitalized from the symptoms

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

14.1 Did any of these symptoms require this household member to seek medical attention? [__] (Fill in 0= No , 1=Yes, 2= Don't know)

Post question

na

Interviewer instructions

na

did any of these symptoms cause you to miss work (q14_miss_work_h)
File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 14
Decimals: 0
Range: 0-98

Valid cases: 291
Invalid: 560

Description

Household member forced to miss work from the symptoms

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

14.2 Did any of these symptoms cause the household member to miss work? (Fill in 0= No , 1=Yes, 2= Don't know, 3=Not applicable)

Post question

na

Interviewer instructions

na

did any of these symptoms require you to be hospitalised
(q14_hospitalized_h)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 14
Decimals: 0
Range: 0-98

Valid cases: 291
Invalid: 560

Description

Household member forced to be hospitalized from the symptoms

Universe

households selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

13.3 Did any of these symptoms require the household member to be hospitalised? (Fill in 0= No , 1=Yes, 2= Don't know, 3=Not applicable)

Post question

na

Interviewer instructions

na

symptoms/illness construed to be COVID-19 (q14_covid_symptoms)
File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 0-98

Valid cases: 345
Invalid: 506

Description

If the symptoms were associated with COVID-19

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

13.3 Were the symptoms/illness construed to be COVID-19 (clinical lab confirmed)? 1-Yes; 2=No 3: Don't know

Post question

na

Interviewer instructions

na

In the last 24 months, has any member of your household died
(q15a_hhm_died)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 0-98

Valid cases: 849
Invalid: 2

Description

Presence of any death in the household in the last 24 months

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

In the last 24 months, has any member of your household died? |_| (Fill in 0= No , 1=Yes, 2= Don't know

Post question

na

Interviewer instructions

na

gender of the deceased person in the hh in the last 24 months
(q15b_hhm_died_gender1)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 1-2

Valid cases: 96
Invalid: 755

Description

Gender of the prson who died

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

If yes, indicate sex and age of the deceased _____

Post question

na

Interviewer instructions

na

age of the deceased person in the hh in the last 24 months
(q15b_hhm_died_age1)
File: Kemis 2(II)

Overview

Type: Continuous
Format: numeric
Width: 10
Decimals: 0
Range: 0-115

Valid cases: 96
Invalid: 755
Minimum: 0
Maximum: 115
Mean: 47.8
Standard deviation: 29.3

Description

Age of the prson who died

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

If yes, indicate sex and age of the deceased _____

Post question

na

Interviewer instructions

na

gender of the deceased person in the hh in the last 24 months
(q15b_hhm_died_gender2)
File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 1-2

Valid cases: 4
Invalid: 847

Description

Gender of the prson who died

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

If yes, indicate sex and age of the deceased _____

Post question

na

Interviewer instructions

na

age of the deceased person in the hh in the last 24 months
(q15b_hhm_died_age2)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 4
Format: character	Invalid: 0
Width: 2	
Description	
Age of the prson who died	
Universe	
Household selected for the study	
Source of information	
Participants selected for the study	
Pre question	
na	
Literal question	
If yes, indicate sex and age of the deceased _____	
Post question	
na	
Interviewer instructions	
na	

In the last 24 months, has any member of your household died
(q15c_hhm_death_b4_covid)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 849
Format: numeric	Invalid: 2
Width: 8	
Decimals: 0	
Range: 0-1	
Description	
Presence of any death in the household in the last 24 months	
Universe	
Household selected for the study	
Source of information	
Participants selected for the study	
Pre question	
na	
Literal question	
In the last 24 months, has any member of your household died? _ (Fill in 0= No , 1=Yes, 2= Don't know	
Post question	
na	
Interviewer instructions	
na	

gender of the deceased person within 2 years before COVID-19 (q15d_covid_died_gender1) File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 1-2

Valid cases: 82
Invalid: 769

Description

Gender of the prson who died

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

If yes, indicate sex and age of the deceased _____

Post question

na

Interviewer instructions

na

age of the deceased person within 2 years before COVID-19 (q15d_covid_died_age1) File: Kemis 2(II)

Overview

Type: Continuous
Format: numeric
Width: 10
Decimals: 0
Range: 0-100

Valid cases: 82
Invalid: 769
Minimum: 0
Maximum: 100
Mean: 43.8
Standard deviation: 28.5

Description

Age of the prson who died

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

If yes, indicate sex and age of the deceased _____

Post question

na

Interviewer instructions

na

gender of the deceased person within 2 years before COVID-19 (q15d_covid_died_gender2) File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 1-2

Valid cases: 2
Invalid: 849

Description

Gender of the prson who died

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

If yes, indicate sex and age of the deceased _____

Post question

na

Interviewer instructions

na

age of the deceased person within 2 years before COVID-19 (q15d_covid_died_age2) File: Kemis 2(II)

Overview

Type: Discrete
Format: character
Width: 2

Valid cases: 3
Invalid: 0

Description

Age of the prson who died

Universe

Household selected for the study

Source of information

Participants selected for the study

Pre question

na

Literal question

If yes, indicate sex and age of the deceased _____

Post question

na

Interviewer instructions

na

Have you had a COVID-19 vaccine (q16a_covid_vaccine) File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 1-98

Valid cases: 651
 Invalid: 200

Description

Has received COVID-Vaccine injection

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

16.1 Have you had a COVID-19 vaccine? [__] (Fill in 0= No , 1=Yes, 2= Don't know)

Post question

na

Interviewer instructions

na

First COVID vaccine type (q16a_covid_vaccine_type1)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 17
 Decimals: 0
 Range: 1-98

Valid cases: 278
 Invalid: 573

Description

Name of the vaccine

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

16.2 COVID vaccine type? (1 - AstraZeneca, 2 - Pfizer, 3- Johnson & Johnson, 4 -Moderna, 5 -SputnikV, 6-Sinopharm 7- Others....(specify))

Post question

na

Interviewer instructions

na

First COVID vaccine type specified (q16a_vaccine_type_other1)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 21

Valid cases: 2
 Invalid: 0

Description

Other type not listed

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

Other...Specify

Post question

na

Interviewer instructions

na

Second COVID vaccine type (q16a_covid_vaccine_type2)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 17
 Decimals: 0
 Range: 1-98

Valid cases: 181
 Invalid: 670

Description

Type received on second dose

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

16.2 COVID vaccine type? (1 - AstraZeneca, 2 - Pfizer, 3- Johnson & Johnson, 4 -Moderna, 5 -SputnikV, 6-Sinopharm 7- Others....(specify))

Post question

na

Interviewer instructions

na

Second COVID vaccine type specified (q16a_vaccine_type_other2)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 1

Valid cases: 0
 Invalid: 0

Description

Other type received on second dose, not listed

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

Other...specify

Post question

na

Interviewer instructions

na

Third COVID vaccine type (q16a_covid_vaccine_type3)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 17

Decimals: 0

Range: 1-98

Valid cases: 8

Invalid: 843

Description

Type received on third injection

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

16.2 COVID vaccine type? (1 - AstraZeneca, 2 - Pfizer, 3- Johnson & Johnson, 4 -Moderna, 5 -SputnikV, 6-Sinopharm 7- Others....(specify))

Post question

na

Interviewer instructions

na

Third COVID vaccine type specified (q16a_vaccine_type_other3)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 1

Valid cases: 0

Invalid: 0

Description

Other type, specified

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

Other...specified

Post question

na

Interviewer instructions

na

Number of the doses given (q16a_number_doses)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 1-3

Valid cases: 278
 Invalid: 573

Description

Total number of doses received

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

16.3 How many doses? |__|

Post question

na

Interviewer instructions

na

Date the first dose of the covid vaccine was administered

(q16a_dose1date)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 10

Valid cases: 278
 Invalid: 0

Description

date of first dose

Universe

NUHDSS residents

Source of information

Selected participants

Pre question

na

Literal question

b) Dose 1 type: |__|date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

Date the second dose of the covid vaccine was administered (q16a_dose2date) File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 181
Format: character	Invalid: 0
Width: 10	
Description	
date of second dose	
Universe	
NUHDSS residents	
Source of information	
Selected participant	
Pre question	
na	
Literal question	
c) Dose 2 type: __ date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_	
Post question	
na	
Interviewer instructions	
na	

Date the third dose of the covid vaccine was administered (q16a_dose3date) File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 8
Format: character	Invalid: 0
Width: 10	
Description	
date of third dose	
Universe	
NUHDSS residents	
Source of information	
Selected participants	
Pre question	
na	
Literal question	
d) Dose 3 type: __ date _d_ _d_ / _m_ _m_ _m_ / _y_ _y_	
Post question	
na	
Interviewer instructions	
na	

COVID vaccine status (q16_vaccine_status) File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 20
 Decimals: 0
 Range: 1-3

Valid cases: 551
 Invalid: 300

Description

The status of COVID vaccination

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

vaccination confirmed through (q16a_confirmed_vaccination)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 28
 Decimals: 0
 Range: 1-98

Valid cases: 278
 Invalid: 573

Description

how interviewer confirmed the vaccination status

Universe

NUHDSS residents

Source of information

Selected participants

Pre question

na

Literal question

16.4 Vaccination confirmed by: | | 1=Vaccination Card; 2= SMS; 3= Verbal report; 4=Other(specify).....

Post question

na

Interviewer instructions

na

vaccination confirmed through (q16a_confirmed_vaccination_spy)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 32

Valid cases: 2
 Invalid: 0

Description

How interviewer confirmed vaccination status

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

16.4 Vaccination confirmed by: | 1=Vaccination Card; 2= SMS; 3= Verbal report; 4=Other(specify).....

Post question

na

Interviewer instructions

na

Reason for not getting the vaccine COVID-19 vaccine
(q16b_reason_no_vaccines)
File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 71

Decimals: 0

Range: 1-98

Valid cases: 273

Invalid: 578

Description

Reason given for not receiving vaccine

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

If no to 16a above, what is your reason for not getting the vaccine?

Post question

na

Interviewer instructions

Tick all that apply

Reason for not getting the vaccine COVID-19 vaccine
(q16b_reason_no_vaccines_spy)
File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 32

Valid cases: 420

Invalid: 0

Description

Other reason specified for not receiving the vaccine

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

If no to 16a above, what is your reason for not getting the vaccine? (tick all that apply)

Post question

Other...specify

Interviewer instructions

na

Recommend COVID-19 vaccination to other people (q16c_covid_recomendations)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 8

Decimals: 0

Range: 1-3

Valid cases: 851

Invalid: 0

Description

whether participant would recommend vaccine to others

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

Would you recommend COVID-19 vaccination to other people?

Post question

na

Interviewer instructions

na

If NO/Not sure, why not (q16d_not_sure_reason)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 32

Valid cases: 145

Invalid: 0

Description

reason why participant would not recommend vaccine to others

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

If NO/Not sure, why not?

Post question

na

Interviewer instructions

na

rate your own risk of getting infected with the virus that causes COVID-19 (q17a_covid_risk)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 8
Decimals: 0
Range: 1-4

Valid cases: 851
Invalid: 0

Description

Individual risk rating

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

How do you rate your own risk of getting infected with the virus that causes COVID-19

Post question

na

Interviewer instructions

na

how worried are you about getting SAR-CoV-2 and its outcomes (q17b_sarscov_risk)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 18
Decimals: 0
Range: 1-3

Valid cases: 851
Invalid: 0

Description

Worry about COVID-19 infection

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

If there is a risk of getting COVID-19, how worried are you about getting SAR-CoV-2 and its outcomes?

Post question

na

Interviewer instructions

na

Covid test results (q18a_test_positive)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 0-1

Valid cases: 851
 Invalid: 0

Description

Results of COVID-19 test

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal questionHave you ever tested for COVID? ☐ (Fill in 0= No , 1=Yes)**Post question**

na

Interviewer instructions

na

How was the testing done (q18b_test_done)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 30
 Decimals: 0
 Range: 1-3

Valid cases: 25
 Invalid: 826

Description

type of test

Universe

NUHDSS residents

Source of information

Selected participant

Pre question

na

Literal question

How was the testing done?

Post question

na

Interviewer instructions

na

Has any of your household member(s) left this household in the last 6 months (q19a_hh_members_left)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 39
Decimals: 0
Range: 1-4

Valid cases: 851
Invalid: 0

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participants selected for the study

Pre question

na

Literal question

18.1 Has any of your household member(s) left this household in the last 6 months?

Post question

na

Interviewer instructions

na

where did they migrate to (q30_outmigration_destination)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 36
Decimals: 0
Range: 1-98

Valid cases: 155
Invalid: 696

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participant selected for the study

Pre question

na

Literal question

18.1.1. If yes, where did they migrate to?

Post question

na

Interviewer instructions

na

Reason for outmigration (q30_outmigration_reason)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 20
 Decimals: 0
 Range: 1-98

Valid cases: 151
 Invalid: 700

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participant selected for the study

Pre question

na

Literal question

18.1.2. Reason for outmigration _____

Post question

na

Interviewer instructions

na

Reason for outmigration specified (q30_outmigration_reason_spy)
 File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 32

Valid cases: 6
 Invalid: 0

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participant selected for the study

Pre question

na

Literal question

Other reason...specify

Post question

na

Interviewer instructions

na

Has any of your household member(s) left this household in the last 6 months (q30_inmigrant_member)
 File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 20
 Decimals: 0
 Range: 1-4

Valid cases: 850
 Invalid: 1

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participant selected for the study

Pre question

na

Literal question

18.2 Has any member joined your household in the last 6 months?

Post question

na

Interviewer instructions

na

where did they migrate from (q30_inmigrant_origin)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 20
 Decimals: 0
 Range: 1-98

Valid cases: 99
 Invalid: 752

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participant selected for the study

Pre question

na

Literal question

18.2.1. If yes, where did they in migrate from?

Post question

na

Interviewer instructions

na

Reason for immigration (q30_inmigration_reason)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 20
 Decimals: 0
 Range: 1-98

Valid cases: 97
 Invalid: 754

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participant selected for the study

Pre question

na

Literal question

18.2.2. Reason for immigration_____

Post question

na

Interviewer instructions

na

Reason for immigration specified (q30_inmigration_reason_spy)

File: Kemis 2(II)

Overview

Type: Discrete
Format: character
Width: 27

Valid cases: 3
Invalid: 0

Description

Outmigration and immigration information

Universe

NUHDSS households

Source of information

Participant selected for the study

Pre question

na

Literal question

Other reason for immigration, specified

Post question

na

Interviewer instructions

na

Has any of your hh members lost a job or source of livelihood in the last 6 mont (q20a_loss_income)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 30
Decimals: 0
Range: 0-9999

Valid cases: 851
Invalid: 0

Description

Information on loss of job/income due to COVID-19

Universe

NUHDSS residents

Source of information

Participant selected for the study

Pre question

na

Literal question

19.1 Has any of your household members lost a job or source of livelihood in the last 6 months?

Post question

na

Interviewer instructions

na

do you know why the job was lost (q20b_reason_joblost)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 64

Valid cases: 244

Invalid: 0

Description

loss of job/income during COVID-19

Universe

NUHDSS residents

Source of information

Participants selected for the study

Pre question

na

Literal question

19.2 If you answered 1 or 2, do you know why the job was lost_____

Post question

na

Interviewer instructions

na

Have you been unable to access and use healthcare services you would normally ha (q21a_healthcare_access)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 10

Decimals: 0

Range: 1-9999

Valid cases: 851

Invalid: 0

Description

Access to health services during COVID-19

Universe

NUHDSS residents

Source of information

Participants selected for the study

Pre question

na

Literal question

20.1 Have you been unable to access and use healthcare services you would normally have access to in the last 6 months?
(Fill in 0= No , 1=Yes, 2= Don't know)

Post question

na

Interviewer instructions

na

Antenatal care (q21b_services_missed_01)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-9999

Valid cases: 851
Invalid: 0

Description

Access to health services during COVID-19

Universe

NUHDSS residents

Source of information

Participants selected for the study

Pre question

20.2 If yes, which services were missed

Literal question

Antenatal care

Post question

na

Interviewer instructions

Tick all that apply

Delivery at a health facility (q21b_services_missed_02)

File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-9999

Valid cases: 851
Invalid: 0

Description

Access to health services during COVID-19

Universe

NUHDSS residents

Source of information

Participants selected for the study

Pre question

20.2 If yes, which services were missed

Literal question

Delivery at the health facility

Post question

na

Interviewer instructions

Tick all that apply

Immunization (q21b_services_missed_03)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-9999

Valid cases: 851
 Invalid: 0

Description

Access to health services during COVID-19

Universe

NUHDSS residents

Source of information

Participants selected for the study

Pre question

20.2 If yes, which services were missed

Literal question

Immunization

Post question

na

Interviewer instructions

Tick all that apply

Consultation/treatment for chronic conditions e.g diabetes, hypertension, stroke (q21b_services_missed_04)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-9999

Valid cases: 851
 Invalid: 0

Description

Access to health services during COVID-19

Universe

NUHDSS residents

Source of information

Participants selected for the study

Pre question

20.2 If yes, which services were missed

Literal question

Consultation/treatment for chronic conditions

Post question

na

Interviewer instructions

Tick all that apply

Reason for missed service (q21c_missed_service_reason)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 94
Format: character	Invalid: 0
Width: 64	
Description	
Access to health services during COVID-19	
Universe	
NUHDSS residents	
Source of information	
Participants selected for the study	
Pre question	
na	
Literal question	
Reason for missed service? _____	
Post question	
na	
Interviewer instructions	
na	

Does the participant have a BCG scar (q22_bcg_scar)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 851
Format: numeric	Invalid: 0
Width: 10	
Decimals: 0	
Range: 0-98	
Description	
BCG scar	
Universe	
NUHDSS residents	
Source of information	
Participants selected for the study	
Pre question	
Check for BCG scar (first look at the left, then the right shoulder)	
Literal question	
21.1 Does the participant have a BCG scar? __ (Fill in 0= No , 1=Yes) __ (Fill in 0= No , 1=Yes, 2= Don't know)	
Post question	
na	
Interviewer instructions	
na	

Do you have vaccination records (q23a_vaccine_records)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 0-1

Valid cases: 106
 Invalid: 745

Description

Routine vaccination information for children below 5 years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.1 Do you have vaccination records for (child's Name)? |_| (Fill in 0= No , 1=Yes)

Post question

na

Interviewer instructions

If you answered YES, in 20.1, Capture Vaccination history from the records provided (Fill in 0= No , 1=Yes, 2= Don't know)

BCG (q23_bcg)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 15
 Decimals: 0
 Range: 1-98

Valid cases: 57
 Invalid: 794

Description

Routine vaccination information for children below 5 years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.2 BCG |_| if yes, fill in date |_d_|_d_|/_m_|_m_|_m_|/_y_|_y_|

Post question

na

Interviewer instructions

na

Date BCG was administered (q23_date_vaccinated_bcg)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 10

Valid cases: 57
 Invalid: 0

Description

Routine vaccination information for children below 5 years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.2 BCG |__| if yes, fill in date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

PENTA 1 (q23_penta1)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 15

Decimals: 0

Range: 1-98

Valid cases: 57

Invalid: 794

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.3 Penta 1 |__| if yes, fill in date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

Date PENTA1 was administered (q23_date_vaccinated_penta1)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 10

Valid cases: 57

Invalid: 0

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.3 Penta 1 |__| if yes, fill in date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

PENTA 2 (q23_penta2)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 15

Decimals: 0

Range: 1-98

Valid cases: 57

Invalid: 794

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.4 Penta 2 |__| if yes, fill in date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

Date PENTA2 was administered (q23_date_vaccinated_penta2)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 10

Valid cases: 57

Invalid: 0

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.4 Penta 2 |__| if yes, fill in date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

PENTA 3 (q23_penta3)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 15
 Decimals: 0
 Range: 1-98

Valid cases: 57
 Invalid: 794

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.5 Penta 3 |__| if yes, fill in date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

Date PENTA2 was administered (q23_date_vaccinated_penta3)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 10

Valid cases: 57
 Invalid: 0

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.5 Penta 3 |__| if yes, fill in date |_d_|_d_|/|_m_|_m_|_m_|/|_y_|_y_|

Post question

na

Interviewer instructions

na

PCV 1 (q23_pcv1)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 15
 Decimals: 0
 Range: 1-98

Valid cases: 57
 Invalid: 794

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.6 PCV 1 |__| if yes, fill in date |_d_|_d_|_|/_m_|_m_|_m_|_|/_y_|_y_|

Post question

na

Interviewer instructions

na

Date PCV1 was administered (q23_date_vaccinated_pcv1)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: character
 Width: 10

Valid cases: 57
 Invalid: 0

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.6 PCV 1 |__| if yes, fill in date |_d_|_d_|_|/_m_|_m_|_m_|_|/_y_|_y_|

Post question

na

Interviewer instructions

na

PCV 2 (q23_pcv2)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 15
 Decimals: 0
 Range: 1-98

Valid cases: 57
 Invalid: 794

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.7 PCV 2 |__| if yes, fill in date |_d_|_d_|_|_m_|_m_|_m_|_|_y_|_y_|

Post question

na

Interviewer instructions

na

Date PCV2 was administered (q23_date_vaccinated_pcv2)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 10

Valid cases: 57

Invalid: 0

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.7 PCV 2 |__| if yes, fill in date |_d_|_d_|_|_m_|_m_|_m_|_|_y_|_y_|

Post question

na

Interviewer instructions

na

PCV 3 (q23_pcv3)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 15

Decimals: 0

Range: 1-98

Valid cases: 57

Invalid: 794

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.8 PCV 3 |__| if yes, fill in date |_d_|_d_|_|_|_m_|_m_|_m_|_|_y_|_y_|

Post question

na

Interviewer instructions

na

Date PCV3 was administered (q23_date_vaccinated_pcv3)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 10

Valid cases: 57

Invalid: 0

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.8 PCV 3 |__| if yes, fill in date |_d_|_d_|_|_|_m_|_m_|_m_|_|_y_|_y_|

Post question

na

Interviewer instructions

na

MCV 1 (q23_mcv1)

File: Kemis 2(II)

Overview

Type: Discrete

Format: numeric

Width: 15

Decimals: 0

Range: 1-98

Valid cases: 57

Invalid: 794

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.9 MCV1 |__| if yes, fill in date |_d_|_d_|_|_|_m_|_m_|_m_|_|_y_|_y_|

Post question

na

Interviewer instructions

na

Date MCV1 was administered (q23_date_vaccinated_mcv1)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 49
Format: character	Invalid: 0
Width: 10	
Description	
Routine vaccination information for children below 5years	
Universe	
Children <5	
Source of information	
Caregiver to the children selected for the study	
Pre question	
na	
Literal question	
22.9 MCV1 __ if yes, fill in date _d_ _d_ _ _m_ _m_ _m_ _ _y_ _y_	
Post question	
na	
Interviewer instructions	
na	

MCV 2 (q23_mcv2)

File: Kemis 2(II)

Overview	
Type: Discrete	Valid cases: 57
Format: numeric	Invalid: 794
Width: 15	
Decimals: 0	
Range: 1-98	
Description	
Routine vaccination information for children below 5years	
Universe	
Children <5	
Source of information	
Caregiver to the children selected for the study	
Pre question	
na	
Literal question	
22.10 MCV2 __ if yes, fill in date _d_ _d_ _ _m_ _m_ _m_ _ _y_ _y_	
Post question	
na	
Interviewer instructions	
na	

Date MCV2 was administered (q23_date_vaccinated_mcv2)

File: Kemis 2(II)

Overview

Type: Discrete
Format: character
Width: 10

Valid cases: 28
Invalid: 0

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

na

Literal question

22.10 MCV2 |__| if yes, fill in date |_d_|_d_|/_m_|_m_|_m_|/_y_|_y_|

Post question

na

Interviewer instructions

na

Reason why vaccination card is not available (q24_reason_card_miss) File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 77
Decimals: 0
Range: 1-98

Valid cases: 49
Invalid: 802

Description

Routine vaccination information for children below 5years

Universe

Children <5

Source of information

Caregiver to the children selected for the study

Pre question

If you answered NO, in 20.1,

Literal question

22.11 Reason why vaccination card is not available. |__|

Post question

(Choose from the List of probable reasons why no records provided)

Interviewer instructions

na

Blood sample collected (q26_sample_collected) File: Kemis 2(II)

Overview

Type: Discrete
Format: numeric
Width: 8
Decimals: 0
Range: 0-1

Valid cases: 851
Invalid: 0

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

Sample collected

Post question

na

Interviewer instructions

na

Date blood sample was collected (q26_sample_date_collected)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 10

Valid cases: 850

Invalid: 0

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

Date of sample collection (hh:mm; 24hr clock)

Post question

na

Interviewer instructions

na

Time the blood sample was collected (q26_time_blood)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 5

Valid cases: 850

Invalid: 0

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

Time of sample collection (hh:mm; 24hr clock)

Post question

na

Interviewer instructions

na

Participant,s blood group (q26_blood_group_result)

File: Kemis 2(II)

Overview

Type: Discrete

Format: character

Width: 3

Valid cases: 848

Invalid: 0

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

Blood group test done?

Post question

na

Interviewer instructions

na

Spike OD (spikeOD)

File: Kemis 2(II)

Overview

Type: Continuous

Format: numeric

Width: 10

Decimals: 0

Range: 0.048-4

Valid cases: 851

Invalid: 0

Minimum: 0

Maximum: 4

Mean: 1.7

Standard deviation: 1.1

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

Neg OD (spikeNegOD)

File: Kemis 2(II)

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0.1025-0.131

Valid cases: 851
 Invalid: 0
 Minimum: 0.1
 Maximum: 0.1
 Mean: 0.1
 Standard deviation: 0

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

Spike_OD_ratio (spikeODratio)

File: Kemis 2(II)

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0.391836734693878-36.4963503649635

Valid cases: 851
 Invalid: 0
 Minimum: 0.4
 Maximum: 36.5
 Mean: 14.7
 Standard deviation: 9.8

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

Nuc OD (nucOD)

File: Kemis 2(II)

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0.036-3.672

Valid cases: 397
 Invalid: 454
 Minimum: 0
 Maximum: 3.7
 Mean: 0.5
 Standard deviation: 0.6

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

Neg OD (nucNegOD)

File: Kemis 2(II)

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0.11175-0.129

Valid cases: 397
 Invalid: 454
 Minimum: 0.1
 Maximum: 0.1
 Mean: 0.1
 Standard deviation: 0

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

Nuc_OD_ratio (nucODratio)

File: Kemis 2(II)

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0.288577154308617-30.6845637583893

Valid cases: 397
 Invalid: 454
 Minimum: 0.3
 Maximum: 30.7
 Mean: 4.3
 Standard deviation: 4.8

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

Spikes sero results (spikeseropos)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-1

Valid cases: 851
 Invalid: 0

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

(nucseropos)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-1

Valid cases: 397
 Invalid: 454

Description

Blood sample information

Universe

Study participants

Source of information

Lab report

Pre question

na

Literal question

na

Post question

na

Interviewer instructions

na

Phase when data was collected (survey_round)

File: Kemis 2(II)

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-3

Valid cases: 851
 Invalid: 0

Description

The phase when data was collected

Documentation

Questionnaires

KEMIS Questionnaire

Title	KEMIS Questionnaire
Author(s)	APHRC, KWTRP KILIFI
Date	2023
Country	Kenya
Language	English
Contributor(s)	Maurine, Ziraba
Publisher(s)	APHRC
Filename	Questionnaire 2.1.pdf

Technical documents

Technical Report

Title	Technical Report
Author(s)	APHRC, KWTRP KILIFI
Date	2023
Country	Kenya
Language	English
Contributor(s)	Maurine, Ziraba
Publisher(s)	APHRC
Filename	Technical Report.docx

Other materials

Research_Permit_NACOSTI

Title	Research_Permit_NACOSTI
Author(s)	APHRC, KWTRP KILIFI
Date	2023
Country	Kenya
Language	English
Contributor(s)	Maurine, Ziraba
Publisher(s)	APHRC
Filename	Research_Permit_NACOSTI.pdf

SERU 4085 AM 4_Ethics approval Letter_KEMRI

Title	SERU 4085 AM 4_Ethics approval Letter_KEMRI
Author(s)	APHRC, KWTRP KILIFI
Date	2023

Country	Kenya
Language	English
Contributor(s)	Maurine, Ziraba
Publisher(s)	APHRC
Filename	SERU 4085 AM 4_Ethics approval Letter_KEMRI.pdf

Serosurveillance HDSS residents_Assent

Title	Serosurveillance HDSS residents_Assent
Author(s)	APHRC, KWTRP KILIFI
Date	2023
Country	Kenya
Language	English
Contributor(s)	Maurine, Ziraba
Publisher(s)	APHRC
Filename	Serosurveillance HDSS residents_Assent_English.pdf

Surveillance COVID-19 Protocol

Title	Surveillance COVID-19 Protocol
Author(s)	APHRC, KWTRP KILIFI
Date	2023
Country	Kenya
Language	English
Contributor(s)	Maurine, Ziraba
Publisher(s)	APHRC
Filename	Surveillance COVID-19 Master Protocol.pdf

Serosurveillance HDSS Residents_ICF_English

Title	Serosurveillance HDSS Residents_ICF_English
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