

# Mask Up! Testing strategies to increase mask use in Kenya

## Pre-Analysis Plan

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### Summary

This document outlines the plan for analyzing a mask promotion pilot program to reduce the spread of SARS-Cov-2 in western Kenya being implemented in partnership with the Siaya County Ministry of Health. The pilot program involves the provision of free masks, combined with educational and behavioral interventions informed by behavioral economics insights. The goal of this pilot program is to understand reasons for low mask adoption, and to help inform Ministry of Health policies around potential scale-ups. This pre-analysis plan outlines the study design and intervention, the main outcomes of interest and the primary methods of analysis for evaluating this program. We note that we anticipate possibly carrying out further analyses beyond those included in this document; hence, this document is not intended to be comprehensive or to preclude additional or exploratory analysis.

**Appendix A:** Survey Instruments (Baseline Phone Survey, Midline Phone Survey, Endline Phone Survey, Mask Observation Sheet)

**Appendix B:** Intervention Materials (Appendix Details, Additional Information Text Messages, Community Health Worker scripts)

## 1. Background

COVID-19 poses a major threat to countries around the world. Prior to distribution of vaccines to the general population, efforts to reduce the spread of SARS-CoV-2 are limited to non-pharmaceutical interventions such as social distancing and face coverings. Although conflicting recommendations have been issued, recent evidence suggests that face masks may significantly reduce the spread of SARS-CoV-2. However, questions remain on how to effectively promote mask adoption: Despite masks being mandatory, recent evidence shows less than 20% wear them at markets in Western Kenya (Jakubowski et al. 2021). Together with

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the Ministry of Health in Siaya county, we evaluate a pilot program that distributes a free mask to each citizen, combined with educational interventions informed by insights from behavioral economics.

The aim of the pilot is to evaluate the cost-effectiveness of the different interventions to provide data-based evidence for a potential scale-up. At the same time, the study is designed to allow us to identify the underlying mechanisms for low mask use. Mask distribution alone may be effective, if lack of access to affordable masks is the main barrier, similar to what has been shown for other health goods (e.g. Ahsraf et al. (2010) and Noor et al. (2007)). On the other hand, adoption may be low because households' misperceptions of the severity of COVID-19, its exponential growth, or of the effectiveness of masks (as shown by Fetzer et al. (2020)). If the principal reason for under-adoption is that masks are not salient or are often forgotten at home, a small behavioral nudge may lead to increased mask adoption (Kahnemann & Tversky, 1974). Lastly, mask wearing is publicly observable, and mask-related policies have been a matter of political contention. Understanding and shifting the social dynamics behind mask adoption seems therefore crucial, as a nascent literature shows that social signaling can significantly increase the adoption of health goods (Karing, 2018). Distinguishing between these mechanisms may shed light not only on mask use in rural Kenya, but on the mechanisms driving low adoption of publicly observable health behaviors more generally.

This pre-analysis plan outlines the study design and intervention, the main outcomes of interest and the primary methods of analysis for evaluating this program.

## 2. Research Design

### 2.1 Interventions

Distribution of face masks to the general population provides an opportunity to educate the public about COVID-19, reasons for wearing a mask, proper use of mask, and reinforce messages about maintaining physical distance and frequent hand washing even when wearing a mask. The Siaya County Ministry of Health's program intends to distribute a free face mask to all adult citizens over the age of 5, combined with educational messaging around social distancing behavior and proper mask usage. In a collaboration with Safe Hands Kenya, a private-sector group sourcing masks and other sanitary equipment for pro-bono distribution, the Ministry has recently been able to source the first 10,000 masks, which will be provided in randomly selected villages in Ugunja subcounty, a relatively rural area on one of the major trade routes between Nairobi and Kampala.

All individuals over the age of 5 in treatment villages will be offered a free mask by Siaya County community health workers. Every mask recipient will receive critical information about masks that adheres to the Ministry of Health guidance about masks. Random groups of recipients will also receive additional messages (both in-person during the initial visit, and via text message follow-ups) that reinforce specific information about mask effectiveness, benefits to oneself and

the community that test 4 different hypotheses of why mask adoption may be low. Interventions are summarized in the table below. More details on all of these are found in Appendix B.

**Table 1 - Causal channels and messaging interventions**

<b>Reason for mask under-adoption</b>	<b>Intervention</b>
Lack of access to masks	<b>Mask Distribution + Education:</b> Free mask distribution + education on correct usage (village-level)
Incorrect beliefs about mask effectiveness	<b>Additional Information Treatment 1 - Mask Effectiveness:</b> Additional information on mask effectiveness (in person + text reminders) <ul style="list-style-type: none"> <li>- Visualization of droplet spread with / without masks (household-level)</li> <li>- Information on best evidence of mask effectiveness (household-level)</li> </ul>
Incorrect beliefs about severity of covid-19 / infection probability	<b>Additional Information Treatment 2 - Covid Severity:</b> Additional information on COVID-19 (in person + text reminders) <ul style="list-style-type: none"> <li>- Information on COVID-19 symptoms /hospitalizations / deaths (household-level)</li> <li>- Visualization of exponential spread of the pandemic (household-level)</li> </ul>
Inattention	<b>Additional Information Treatment 3 - Inattention:</b> Additional information to increase mask salience (in person + text reminders) <ul style="list-style-type: none"> <li>- Develop anchor points / reminders for mask wear (household-level)</li> <li>- Weekly text reminders to wear masks (household-level)</li> </ul>
Social stigma / desirability concerns of mask use	<b>Role model intervention</b> <ul style="list-style-type: none"> <li>- Incentivizing mask use and promotion by 'role models' in the village, identified by peers as 'trustworthy in health matters' (village-level)</li> </ul> <p>→ We also test this channel by analyzing spread of information and adoption due to additional information treatments within social networks</p>

Three treatments (mask distribution + education, additional information, and role model) are cross-randomized according to the schedule summarized in Table 2. The number of villages randomized to receive masks + education is capped at 24, to ensure that all eligible individuals are covered by the 10,000 masks our team acquired. In mask + education villages, each household is visited by the community health worker embedded in that community who distributes a free mask for each household member over the age of 5 and provides education on correct mask use and COVID-19. Twenty-four additional villages are assigned to education only treatment. In these villages, all households in a village are visited by community health workers, and receive the identical education about masks and COVID-19 as those receiving masks, but instead of a mask they are given a bar of soap. In addition, a random subset of 50% of households in the 48 mask + education and education only villages are randomly selected to receive additional information at the initial visit during mask/soap distribution, and through 4 weekly follow-up text messages. The additional information treatment is split into three different messages: Mask Effectiveness, Covid Severity and Inattention. The remaining 24 villages

receive neither mask, nor education, nor information treatments, and maintain the status quo of CHWs conducting minimal outreach about COVID-19. The role model treatment is cross-randomized at the village level, with role models being enlisted and incentivized to encourage mask adoption in 36 villages. All treatments are rolled out over a maximum of 2 weeks across all villages.

Treatment assignment is chosen to ensure maximum power for the main hypotheses of separately testing the effects of a) mask distribution + education, where we initially pool across additional information treatments, b) education only, (where we initially pool across additional information treatments), and c) role model treatment. At the same time, it allows for testing secondary hypotheses such as d) which type of additional information treatment is most effective, e) whether mask distribution and/or education treatments interact with the role model treatments, and f) whether additional information treatments lead to within-village spillovers through social networks, though such analyses may be less well-powered.

**Table 2 - Randomization schedule (number of villages)**

<b>Total: 72</b>	Role model (36)			No role model (36)		
No masks, no education (24) <i>No households in these villages receive a visit, nor soap, nor mask, nor additional information</i>	12			12		
	<b>Additional Information Treatments</b> <i>50% of households in these villages are randomly selected to receive additional information</i>					
	Mask effectiveness	Covid severity	Inattention	Mask effectiveness	Covid severity	Inattention
Education only (24) <i>All households receive soap &amp; in-person basic education</i>	4	4	4	4	4	4
Masks + Education villages (24) <i>All households receive masks &amp; in-person basic education</i>	4	4	4	4	4	4

*Notes: Additional information treatments consist of an in-person visit and 4 weekly text message follow-ups. All 50% of households selected within a village receive the same additional information treatment.*

## 2.2 Data Collection

We make use of three main data sources: i) phone surveys with respondents, ii) mask observations, and iii) program implementation data. We describe each in turn.

### 2.2.1 Phone surveys with respondents

We run three rounds of phone surveys with respondents: baseline, midline, and endline phone surveys. Each of these rounds consist of multiple survey waves, each of which is designed to be representative of our overall sample. In addition, within each wave, households in all villages are called in random order (stratified at the village level) to guarantee geographic representativeness over time. In each round, respondents are randomly allocated to enumerators. Both treatment and control villages are assigned an experimental intervention date (mask distribution / information / role model intervention) date, though interventions take place only in treatment villages.

#### *Baseline*

Prior to the experimental start date, we conducted a baseline survey over the phone. This survey lasts approximately 30 minutes, and captures information about household mask ownership, COVID-19 knowledge, and economic activity. This baseline took place in two waves each of which targeted a random subset of the overall sample -- the first wave over July - September 2020 (as part of Egger et al. 2020), the second between December 2020 to January 2021.

#### *Midline*

We conduct 2 waves of midline phone surveys spanning approximately 0-2 weeks and 2-4 weeks after the experimental start date, respectively. These surveys take approximately 15 minutes to complete, and include questions about symptoms of covid-19 as well as other health-related questions, knowledge and information on masks, knowledge flow within social networks (e.g. whether, and to whom respondents talked about covid-19 or masks), mask usage (both for oneself and others in the village), social distancing behavior and basic income measures. They also collect information on intervention implementation, such as whether respondents received a mask, information treatments, or any mask promotion by assigned role models (hypothetical role models in control villages).

#### *Endline*

Approximately 6-8 weeks after the experimental start, endline phone surveys take place, lasting approximately 30 minutes each. These re-collect information from the midline phone surveys but also add in questions on economic outcomes such as income, consumption, attitudes towards government and health authorities, as well as more detailed information on physical and mental health.

### 2.2.2 Mask Observations

Self-reports in phone surveys may overstate mask and social distancing behavior because of social desirability bias (Jakubowski et al. 2021). We therefore additionally conduct more objective observation of publicly observable behavior: Enumerators will observe public spaces from a safe distance and record mask use, type and features of mask wearing by passer-by's. Each village will be observed for at least three 60-minute time slots on different parts of the day (morning, early afternoon, late afternoon). To understand potential spillovers of treatments to behavior at nearby markets, we additionally conduct the same observations on market days at all 10 markets within Ugunja subcounty that happen at least weekly, and 5 randomly selected weekly markets in neighboring Ukwala subcounty.<sup>2</sup> No human subjects information are collected as part of this activity: the enumerators are not collecting any identifiable information and all observations take place in public spaces.

Concurrently with our phone surveys, we conduct three rounds of observations (baseline, midline, and endline). Each round undertakes multiple waves of direct observations and each wave includes three one-hour observation slots (morning, mid-day and evening). At baseline, we conduct 2 waves of observations in all markets and villages, approximately 1 month and 4 months prior to the experimental start date. At midline, we conduct 2 waves for villages, and 4 waves for markets, spanning 1 - 4 weeks after the experimental start date. At endline, we conduct 1 wave for villages, and 2 waves for markets, spanning approximately 5-8 weeks after the experimental start date. Thus, each village is visited for 6 slots prior, and 9 slots after the intervention. Each market is visited for 6 slots prior, and 18 slots after the intervention. Within rounds, market and village visits are randomly ordered to ensure representativeness over time, and enumerators are randomly allocated to villages and markets.

### 2.2.3 Program implementation data

As part of the program rollout, we collect observed information on households that receive masks, the number of masks they receive, the information treatment (if any) they receive, and other details on program compliance. We additionally check in weekly with role models to get self-reported data on the promotional activities. We cross-verify implementation and role model promotional activity data with respondents' reports of these activities obtained through midline phone surveys. (These questions are asked at the very end of the survey so to avoid respondents' priming for treatment effects.)

## 2.3 Data collection and analyses to date

To date, baseline and midline data has been collected. Endline phone surveys and observations started on 3 March and are ongoing.

To date, no treatment effects have been estimated for any outcomes. PIs have had access to program implementation data to help identify any issues with project fidelity, though treatment effects have not been estimated. We include these implementation-related outcomes within our

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<sup>2</sup> The Ukwala markets are excluded from our primary analyses, but serve as another set of potential comparisons for exploratory work to study subcounty-level spillovers and trends.

pre-analysis plan for completeness, and acknowledge that we have seen some data on compliance rates as part of our intervention monitoring activities. PIs will have access to the first week of midline and endline phone survey data to ensure surveys are operating as intended. After this, only de-identified data with household and village identifiers removed will be available for the PIs to check general data quality, no treatment effects will be estimated until after this pre-analysis plan has been filed. REMIT staff (with some research assistance at UC Berkeley) will handle the de-identification process. Once the pre-analysis plan is filed, PIs will receive full access to the data.

### 3. Empirical Specifications

Our preferred regression specification varies by the type of data that we collect. Households' individual treatment status is known for our phone survey data, but cannot be determined for direct observations since we do not collect any personally-identifiable information during this activity (e.g. we cannot determine whether the observed individuals were from the villages where we conduct the observations, or which household they live in). Thus, for outcomes in our phone survey data, we estimate the following specification, pooling midline (when available) and endline observations:

$$Y_{ivt} = \alpha + \beta_1 Mask_v + \beta_2 EducationOnly_v + \beta_3 RM_v + \beta_4 Mask_v * RM_v + \beta_5 EducationOnly_v * RM_v + Y_{iv,t=0} \delta + \gamma_t + \epsilon_{ivt} \quad (1)$$

where  $Y_{ivt}$  is the outcome of individual  $i$  in village  $v$  at time  $t$ ,  $Mask_v$  is an indicator variable for whether households in village  $v$  received free masks + education,  $EducationOnly_v$  is an indicator for whether village  $v$  was assigned to the education only treatment (receiving soap + education), and  $RM_v$  is a dummy for whether the village was assigned the 'role model' treatment, with \* denoting interaction terms between variables.  $Y_{iv,t=0}$  is a vector of the baseline value of the outcome variable, set to the mean if missing, an indicator for missing baseline values, and these variables interacted with an indicator for households that took part in the first baseline survey wave. When pooling data across survey rounds, we include a round fixed effect  $\gamma_t$ . Standard errors are clustered at the village level, where we make use of small cluster adjustments given our sample size (Cameron, Gelbach and Miller 2008).

With our direct observation data conducted in villages, we can make use of village-level treatment assignments and Equation (1). However, we cannot do this for market observations, as markets were not randomly assigned, and some markets cross village boundaries or are located outside of our study villages. Not all individuals observed within a given village will be from that village (a point we return to later); nonetheless, using village treatment assignment can serve as a useful benchmark. With direct observations,  $Y_{ivt}$  represents direct observation  $i$  in village  $v$  at time  $t$ . Village treatment definitions are based on the treatment assignment of the

village in which observations are taking place. Baseline values are village-level averages of the outcome variable. Standard errors are again clustered at the village level, and we similarly make use of small cluster corrections.

Equation (1) provides numerous potential coefficients of interest that can address various academic and policy-related research questions. Here, we describe our current thinking on the main quantities of interest from this equation, noting that these will vary in part depending on the outcome of interest and question at hand.

The following linear combinations are of main interest, particularly for our primary outcomes of mask ownership or use:

- a) Full Intervention Effect ([Mask + Education] + Role model):  $\beta_1 + \beta_3 + \beta_4 = 0$ . This tests whether the full suite of interventions have an effect on an outcome of interest
- b) This pilot study increased mask use on average: Population-weighted average effect across all treatment arms ( $\beta\bar{X}$ ). This captures whether average mask usage (across all study arms) is higher on average due to any of the interventions implemented

A key goal of this pilot study is to help inform Siaya County Ministry of Health policy; therefore, a number of hypotheses are also particularly interesting from a policy and cost-effectiveness standpoint. These tests will help determine whether specific components of the intervention are useful in improving mask adoption and the feasibility of scale-up. We test the following hypotheses:

- c) A CHW-based household-level information and mask distribution campaign increases mask use:  $\beta_1 = 0$
- d) Information distribution by CHWs through household visits increases mask use:  $\beta_2 = 0$
- e) Mask distribution over and above information increases mask use:  $\beta_1 - \beta_2 = 0$
- f) Engaging role models can increase mask use: We lead with a population-weighted average of  $\beta_3 + \beta_4 + \beta_5 = 0$ , though we will also look at each of these components.

For outcomes other than mask ownership and usage, the main hypotheses of interest may be slightly different, and we may therefore pool coefficients differently when testing those.

In addition to these policy-relevant research questions, we also seek to contribute to the academic literature on understanding mechanisms for health behavior adoption. Coefficients on  $Mask_v$  test the hypothesis that increasing access to masks leads to increased adoption of this health-promoting behavior. Coefficients on  $RM_v$  test whether social norms around masks are a driver of low adoption of masks (and potentially publicly observable health behaviors more generally), and whether such norms can be shifted using respected authorities within

communities. Lastly, coefficients on *EducationOnly* test whether incorrect beliefs around the severity of covid, the effectiveness of masks, or inattention to mask usefulness lead to low adoption, and whether such beliefs can be shifted through targeted information campaigns without necessarily requiring distribution of free health goods. We shed light on which belief channel contributes how much by separately looking at each information treatment branch (see section 5.1).

To further investigate the channels of belief and social norm formation, we will also look at information spillovers of knowledge and attitudes within villages from phone survey data. Among the three additional information treatments, only two ('mask effectiveness' and 'covid severity') provide additional knowledge of specific aspects around covid, while the third ('inattention') only provides strategies to avoid forgetting a mask without providing any additional knowledge. To test for knowledge and attitude spillovers of the 'mask effectiveness' and 'covid severity' additional information treatments, using our full sample we therefore compare coefficients for the 50% of households NOT targeted by additional information campaigns in 'mask effectiveness'/'covid severity' villages to those NOT targeted with information campaigns in 'inattention' villages:

$$Y_{ivt} = \alpha + \beta_1 \text{AdditionalInformation}_v + \beta_2 \text{MaskEffectiveness}_v + \beta_3 \text{CovidSeverity}_v + \beta_4 \text{AdditionalInformation}_{iv} + \beta_5 \text{MaskEffectiveness}_{iv} + \beta_6 \text{CovidSeverity}_{iv} + Y_{iv,t=0} \delta + \gamma_t + \epsilon_{ivt} \quad (2)$$

where  $Y_{ivt}$  is a measure of knowledge / attitudes around covid-19 and masks,  $\text{AdditionalInformation}_v$  is an indicator for being located in an additional information treatment village (i.e. either in a mask + education or education only village, where all households receive basic education),  $\text{MaskEffectiveness}_v$  and  $\text{CovidSeverity}_v$  are indicators for being located in a 'mask effectiveness' additional information village.  $\text{AdditionalInformation}_{iv}$ ,  $\text{MaskEffectiveness}_{iv}$  and  $\text{CovidSeverity}_{iv}$  are indicators for receiving additional information treatments at the household level. Here, coefficients  $\beta_2$  and  $\beta_3$  measure the within village spillovers of providing additional information in person and through follow-up text messages in the 'mask effectiveness' and 'covid severity' treatments, while  $\beta_5$  and  $\beta_6$  measure the direct effect on recipients of these treatments themselves.

We also run these regressions separately for knowledge and attitude measures of mask effectiveness and covid severity, since each treatment provides only specific types of information that is mutually exclusive with other treatments. We therefore would expect only those treatment-specific types of knowledge to spill over:

$$Y_{ivt} = \alpha + \beta_1 \text{AdditionalInformation}_v + \beta_2 \text{MaskEffectiveness}_v + \beta_4 \text{AdditionalInformation}_{iv} + \beta_5 \text{MaskEffectiveness}_{iv} + Y_{iv,t=0} \delta + \gamma_t + \epsilon_{ivt} \quad (2a)$$

$$Y_{ivt} = \alpha + \beta_1 \text{AdditionalInformation}_v + \beta_3 \text{CovidSeverity}_v + \beta_4 \text{AdditionalInformation}_{iv} + \beta_6 \text{CovidSeverity}_{iv} + Y_{iv,t=0} \delta + \gamma_t + \epsilon_{ivt} \quad (2b)$$

To gain power, we may pool equations (2a) and (2b), where the outcome is defined as a similarly constructed measure of treatment-specific knowledge/attitudes, i.e. covid-specific knowledge for ‘covid severity’ villages, and mask effectiveness specific knowledge for ‘mask effectiveness villages’.

Our findings on information spillovers will also inform the most relevant measure of the “full” intervention effect above: if there are limited within-village information spillovers, and the additional information (or a specific type of information) has a significant effect in increasing mask outcomes, we will estimate the full potential effects (i.e. adding in the additional information effects) by also including the individual-specific component of the additional information treatment and interaction terms with the other treatment arms, and adding these coefficients to our estimates of the full intervention effect. If, on the other hand, within-village spillovers are large (or direct effects of the additional information treatment are zero), our village-level dummies in Equation (1) already capture all of the effects.

Next, we turn to the analysis of market-level direct observations data on mask usage and distancing behavior. As markets were not assigned to treatment status, we need to take an alternate approach. Instead of treatment indicators, we use variables based on the share of people living in villages around a given market that are assigned to each treatment arm:

$$Y_{ikt} = \alpha + \beta_1 \text{PopShareMasks}_k + \beta_2 \text{PopShareEducationOnly}_{kv} + \beta_3 \text{PopShareRM}_k + \beta_4 \text{PopShareMasks}_k * \text{PopShareEducationOnly}_k + \beta_5 \text{PopShareMasks}_k * \text{PopShareRM}_v + \delta y_{iv,t=0} + \psi M_{iv,t=0} + \gamma_t + \epsilon_{ivt} \quad (3)$$

Here,  $k$  denotes a market, and  $Y_{ikt}$  is an outcome of interest for observation  $i$  at time  $t$ . Because not all individuals observed at a market live in our treatment villages, we use the share of villages, among villages within our study area, assigned to each treatment as an instrument for the population shares around each market (e.g.  $\text{TreatShareMasks}_k$  as an instrument for  $\text{PopShareMasks}_k$ ). Specifically, we calculate these variables in the following steps: first, we define a “market catchment area” using data shopping patterns from Egger et al. (2019). Households reported whether or not they had attended various markets in the study area; we define villages as being in the catchment area of a particular market if more than 20% of households surveyed within the village report having shopped at that market.<sup>3</sup> For the few villages/areas not in the study area of Egger et al. (2019), we assign them to a market’s catchment area if they are located within 1km of a market. This provides an estimate of the population shopping in each market. Second, for each of our treatments, we then calculate the

<sup>3</sup> We will explore the robustness of the results to alternative definitions of catchment areas.

total population assigned to each treatment using census data from our study area villages and treatment assignment. The ratio yields the population share assigned to each treatment. For the instrument (e.g.  $TreatShareMasks_k$ ), we simply take the share of study villages within the market catchment assigned to each of our treatment statuses, which is exogenous by design.

This way of estimating treatment effects for markets means coefficients are interpretable as average effects on individual outcomes relative to a change in the probability of that person being treated -- and comparable to Equations (1) and (2) assuming 100% of each village is treated. We can then also pool data from direct observations across villages and markets by generating treatment shares for villages as well, so that  $k$  denotes a market or village. To start, we simply make use of the village treatment assignment, assigning a share of 1 to villages assigned to a treatment arm and a share of 0 to villages not assigned to that treatment arm. This implicitly assumes that all individuals observed within a village are from that village. We may explore the robustness of other methods for assigning treatment shares for both villages and markets, such as using calculating the share of study households within 1 km of a village or market out of all study households, or using an instrumental variables approach along the lines of Egger et al. (2019).

As above, we include village-level averages of the baseline outcome and survey round fixed effects, We again cluster standard errors at the market / village level, making use of small cluster corrections.

We make the following notes about all of the specifications described above:

- For outcomes that we have at both midline and endline, we will also look at the evolution of effects over time, though we may be underpowered for some of these comparisons. We anticipate doing in a differences-in-differences event study framework with our equations above. We will also look at effects using only endline observations.
- If we find that mask take-up is low, we may also look at treatment-on-the-treated estimates for our different interventions. For phone surveys, we will check for differential attrition patterns; if we find worrying levels of differential attrition, we explore the robustness of our results to alternative methods of handling differential attrition.<sup>4</sup>

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<sup>4</sup> Specifically, we will look at the baseline variables pre-specified for heterogeneous effects for our phone survey data, testing for differences between those surveyed and not surveyed during any of our midline or endline phone survey rounds. If we find meaningful levels of differential attrition, we will follow the approach laid out in Baird et al. (2019), namely checking robustness of our primary results by i) reweighting to account for attrition using inverse probability weights (IPW), ii) deriving upper and lower bounds as in Lee 2009, and iii) following Kling and Liebman (2004) adjustments. For the IPW approach, we will first estimate a probit regression predicting being surveyed with the covariates noted above and their interaction with treatment. We then weight outcomes by the product of the sampling weights and the inverse of this follow-up success probability. For the Kling and Liebman (2004) approach we impute missing observations to the mean within that treatment arm plus or minus 0.1 times the arm-specific standard deviation and plus or minus 0.25 times the standard deviation. For the lower bounds this amount is subtracted from the treatment and added to the control, and for the upper bounds this is reversed. We can also do an analogous exercise round by round.

For all of these equations, we may consider using Conley standard errors if data suggests spatial correlation in the error term. We also conduct design-based inference using randomization inference to compute exact Fisher p-values.

## 4. Outcomes

This section lays out primary and secondary outcomes of interest. Throughout, monetary values will be winsorized at the top 1% (and bottom 1% if not bounded by 0) and converted into USD PPP. We anticipate that there may be some outcomes with very little variation, we have flagged these below and if this holds, we may omit them from the main paper.

### 4.1 Program implementation

We first look at several outcomes related to program implementation:

1. Mask distribution fidelity -- here, we want to see a) if households that should have been offered masks were offered masks and b) if households that should not have been offered masks were not offered masks. We do this by generating indicator variables for each household for conditions (a) and (b), and look at the mean of each of these variables. We then generate an indicator for “correct” mask distribution and use our main regression equation to test for differences in fidelity by treatment status.
2. Information enrollment -- as with mask distribution, we look at both take-up rates (households opting in to receiving the mask text messages) and check to ensure that enrollment is restricted to those assigned to the information treatment
3. Role model engagement -- we conduct monitoring surveys with role models to gauge their activities, and also collect information from households as to whether or not they have received engagement from role models. We will check both measures to determine if role models are carrying out their anticipated duties within villages to promote mask usage.

We look at these using both program implementation data collected by enumerators observing and accompanying community health workers during program implementation and, where applicable, for data from midline phone surveys as well, which also sought to verify some of these outcomes by directly asking households whether they were recipients of these treatments. While phone survey data may be subject to recall or desirability bias, it nonetheless provides an important benchmark compared to the program implementation data. To avoid priming of respondents as much as possible, intervention-related questions were asked at the very end of phone surveys. We include these measures within our pre-analysis plan for completeness, and as noted in Section 2.3, acknowledge that we have seen some data on program intervention compliance rates as part of our intervention monitoring activities.

## 4.2 Primary Outcome Measures

We have four main families of outcomes: (1) mask ownership, (2) mask usage, (3) social distancing behavior and (4) health status. For each of these families, we define one main outcome, which we list below and present in bold when going through the outcomes per family:

1. Number of masks respondent reports owning
2. Wearing a mask correctly, based on direct observations
3. Number of people outside the household that the respondent has interacted with yesterday
4. Indicator for anyone in the household reporting experiencing any COVID-19 symptoms in the last 14 days

We will conduct multiple testing adjustments across these four main outcomes, and then within each of our primary families of outcomes. We will do this separately for each of the hypotheses laid out above by calculating False Discovery Rate (FDR) q-values following the Benjamini, Krieger and Yekutieli (2006) method.

We note that we believe it is more likely we will be able to detect effects on families (1) - (3), as these are the “first-stage” outcomes directly targeted by the intervention, in hopes that this will help lead to overall improvements in health status.

Throughout, we note that the endline survey instrument has not yet been deployed, and thus may change slightly; we will report any deviations or file an amendment to update with substantial changes.

### 1. Mask Ownership

This family of outcomes uses information from phone survey data to first look at mask ownership:

1. Indicator for respondent owning a mask: given baseline data,
2. **Number of masks respondent reports owning**

As a secondary analysis, we look at the two primary outcomes by type of mask, where we categorize them as follows: i) surgical / N-95 (or related) mask, ii) cloth mask, iii) other face covering. We also look at ownership of the Tibanisisi masks distributed during the intervention as a secondary outcome.

### 2. Mask usage

This family of outcomes combines direct observation and phone survey data to look at the following outcomes:

1. **Wearing mask correctly (over mouth and nose), direct observation**
2. Wearing Tibanisisi (intervention) mask correctly (over mouth and nose), direct observation

3. Mask visible, regardless of whether it is being worn correctly, direct observation
4. Reports always wears a mask to all public places, phone survey
5. Reports always or sometimes wearing a mask to all public places, phone survey

For both sets of outcomes, we will look overall (where each observation is a respondent-location) and separately by location / circumstance, which we seek to classify based on the transmission risk. We look at this along three main dimensions: confined space, proximity to others, and interactions with others. Our current thinking on how to group these is as follows:

For direct observations, this is (from least to most risky):

- 1) outdoors, more than 2m away
- 2) outdoors, within 2m, not interacting
- 3) outdoors, within 2m, interacting
- 4) indoors / in confined space (including public transport)

For self-reports, this is:

- 1) in village / while visiting with other households within the village
- 2) while visiting the market, attending religious services or at work
- 3) while on public transport

We consider both direct observations of mask usage and self-reported mask usage as primary outcomes, though direct observations are likely to provide a more objective picture of actual behavior.

In addition, we will compare direct observations to self-reports, as the difference between these two measures serves as a measure of self-reporting bias. We follow the approach outlined in Jakubowski et al. (2021) by converting phone survey data to the respondent-location level and looking both at overall differences in levels and additionally testing whether there the mask treatment arms results in differential changes in reporting differences (for instance, the treatment could increase the social desirability of saying that one always wears a mask, even if it does not change actual mask-wearing behavior).

As a way to both measure community activities and potentially control for some of the potential bias in self-reporting, we also ask households to report the number of people (out of 10) within their village that wear masks to different locations. We will analyze this as a secondary outcome measure for mask usage.

We will also look at whether direct observations denote individuals wearing intervention masks as a secondary outcome.

### **3. Social distancing and travel behavior**

Our main measures of social distancing come from our phone surveys. We have 2 primary outcomes:

- i) a *social distancing behavior index*, which we construct as an Anderson (2008) index of the following variables, which for the index we reverse-code so that positive values represent more social distancing:
1. Indicator for any household member visiting market in past 14 days
  2. Indicator for any household member attending religious services in the past 14 days
  3. Indicator for any household member visiting another household in the past 14 days
- ii) **Number of people outside the household that the respondent has interacted with yesterday.** As a robustness check we look at the last 7 days as well.

We will also look at components of the index as outcome variables.

We will also explore our direct observation data to see how well people are following social distancing behavior. It is hard ex-ante to pre-specify this, but given differences in self-report and directly observed behavior, this may be an important check to verify the self-reports. We will structure this analysis based on the transmission risk of observed behaviors, such as the frequency with which we observe people engaging in personal interactions (hugging, talking, kissing, etc.), their physical proximity to others, or a combination of the two; for example, the share of people we observe interacting who maintain at least 2m distance, or the share of purchase interactions at markets we observe taking place with at least 2m distance between buyer and vendor.

We also use our phone survey data to look at two additional secondary measures for subsets of households engaged in self-employment or employment work.

Among households that are engaged in self-employment, we look at whether they report having adjusted their business for COVID-19. We generate an indicator that is equal to 1 if any of the following conditions hold:

- The respondent reports that enterprise employees can work from home, and they are working from home most of the time, or all of the time.
- The respondent reports that the enterprise has made adjustments in the past 14 days to prevent employees from contracting COVID-19, and provides at least one change that is expected to reduce risk for employees (i.e., requiring masks, increasing distance between employees and customers, etc.)

Similarly, among households that report being in employment, we create an indicator equal to 1 if any of the following conditions hold:

- The employee “always” wears a mask at work
- The employee “always” stays at least 6ft away from other employees / customers

#### **4. Health status**

In addition to our main outcome for **any household member reporting COVID-19 symptoms**, we look at the following primary outcomes as measures of COVID-19 related health:

1. Indicator for respondent experiencing any COVID-19 symptoms in the last 14 days
2. Indicator for other household member experiencing any COVID-19 symptoms in the last 14 days
3. Indicator for any health seeking behaviors and any routine checkups
4. Indicator for lost any time from usual employment or household activities due to illness
5. Indicator for any household member being hospitalized
6. Indicator for any mortality reported within the household

We will explore data around COVID-19 testing, but we expect that testing will not be sufficiently widespread to generate useful variation. In addition, we will look at both mortality and hospitalization for COVID-19 specifically, but here again the general lack of testing may mean COVID-19 specific mortality and hospitalizations are underreported.

As a secondary outcome, we look at the number of COVID-19 symptoms that the respondent reports experiencing in the last 14 days. As COVID-19 symptoms can also be common for other ailments, experiencing a higher number of COVID-19 symptoms may also serve as a check for our covid symptom indicator.

If we find reduced healthcare utilization patterns, we will explore the reasons for this, including whether people disclosed that they did not seek care out of fear of getting infected due to coronavirus.

### **4.3 Secondary Outcomes: Mechanisms**

#### **1. COVID-19 Knowledge**

We construct a *COVID-19 knowledge index* following Anderson (2008) based on the following variables:

1. Indicator for knowing how coronavirus spreads
2. Indicator for believing coronavirus is more serious than malaria
3. Indicator for correctly answering age group at most risk of coronavirus
4. Number of true / false questions answered correctly (Section 9, q57)
5. Indicator for providing key correct behaviors to reduce coronavirus transmission
6. Indicator for not providing incorrect behaviors to reduce coronavirus transmission
7. Indicator for washing mask among those who report having a mask

We will also look at components of the index to better characterize any differences in knowledge that we identify.

#### **2. Attitudes about masking**

We look at three sets of attitudes around masks, and one overall index of mask attitudes (an average of the three subcomponents).

*a. Mask comfort*

1. Indicator for disagreeing that masks are uncomfortable
2. Indicator for disagreeing that masks are unattractive
3. Indicator for not saying main reasons others do not wear masks is that masks are uncomfortable or don't look good

*b. Social desirability*

We use an index of the following questions, coded based on agree / disagree so that higher values indicate greater agreement with social desirability of mask usage

- a. I speak out when others around me do not wear masks
- b. Others judge me for not wearing a mask in public spaces
- c. God will judge those not wearing a mask
- d. People that are not wearing masks are not good community members / citizens
- e. People that do not wear face masks should pay a fine

*c. Enforcement perceptions*

We have two primary measures of enforcement, one from each of our data sources:

- i.* Direct observations of enforcement: as part of our direct observations, the enumerator records whether they observed any authority enforcing mask mandates. We generate an indicator equal to one if the enumerator observed any enforcement during each hour of the observation period. We may also explore constructing this on a daily basis instead.
- ii.* Self-reported likelihood of enforcement index: we construct an Anderson (2008) index from the likelihood the respondent reports of being caught / reprimanded in the following locations, where 1 = *Never*, 2 = *Rarely*, 3 = *Sometimes*, 4 = *Often*, 5 = *Every time* (ie higher values represent greater enforcement):
  - i) market center
  - ii) religious gathering
  - iii) on public transport
  - iv) visit a store in your village
  - v) visit another household in your village

**3. Expectations about the future**

We will assess whether the participants' expectations for the future shift after implementation of the intervention by looking at two outcomes:

1. Indicator for whether respondents expect to be better off one year from now relative to current health
2. Probability of survival until age 80 (1-10), where we control linearly for respondent age

As secondary outcomes, we look at responses to questions about the probability of survival until other ages (50, 60, 70 and 90).

#### 4. Trust in institutions

Our primary outcome is a trust index calculated based on Anderson's (2008) procedure, using three dimensions of trust: whether respondents trust people generally, whether they trust the government, and whether they are open to taking the vaccine. The following indicators will build the index, and we will also look at them separately:

1. Indicator for whether respondents think most people can be trusted
2. Indicator for whether respondents are satisfied with the government's response to the coronavirus crisis.
3. Indicator for whether respondents believe that the government is willing to provide health care to address the Coronavirus crisis
4. Indicator for whether respondents would agree to be vaccinated now if a vaccine was available.

Secondary measures of trust in institutions include whether respondents intend to follow the Government's guidelines to mitigate the spread of the coronavirus and if they think that other people are following the Government's guidelines to mitigate the spread of the coronavirus. For respondents who were not satisfied with the government's response or do not agree to be vaccinated, we will also explore reasons why not.

#### 4.4 Secondary Outcomes: Living Standards and Economic Activity

We look at five main measures of household living standards and economic activity. Tracking living standards during the COVID-19 pandemic remains of interest, especially given falling living standards in the early months of the pandemic (Egger et al. 2021). In addition, we seek to understand whether there are treatment effects on these outcomes from the mask intervention. Our goal is to understand the extent to which there are tradeoffs between these outcomes and mask usage, for instance if mask usage makes it easier to engage in economic activities.

1. **Total consumption expenditure in the last 7 days:** We collect basic information on consumption expenditure at the household level. Our primary outcome is total consumption expenditure in the last 7 days; we also look separately at food and non-food expenditure. We measure non-food expenditure over the last 14 days, we divide this in half in order to come up with a comparable measure for food and non-food expenditure:
  - Total food expenditure in the past 7 days
  - Non food expenditure in the past 7 days: *Household Items + Assets + Services + Communication + Housing + Energy + Transport + Medical*
2. **Food security index:** Our primary measure of food security is an index calculated based on Anderson's (2008) procedure. We use the following variables, reverse-coding where needed (outcomes with a \*) so that greater values indicate greater food security
  - Indicator for household being worried about having enough food\*

- Number of days (out of the past 7) that adults in the household have gone to bed hungry\*
- Number of days (out of the past 7) that adults have skipped meals or cut the amount of meals\*
- Number of days (out of the past 7) that adults have gone entire days without food\*
- Number of days (out of the past 7) that children in the household have gone to bed hungry\*
- Number of days (out of the past 7) that children have skipped meals or cut the amount of meals\*
- Number of days (out of the past 7) that children have gone entire days without food\*
- Indicator for any of the meals the household ate yesterday having protein (meat, fish or eggs)

As secondary outcomes, we look food security separately for adults and children:

- *Children food security*: weighted Anderson (2008) index of responses about children going to bed hungry, skipping meals, and going entire days without food, negatively coded so that greater values indicate greater food security
- *Adult food security*: weighted Anderson (2008) index of responses about adults going to bed hungry, skipping meals, and going entire days without food, negatively coded so that greater values indicate greater food security

3. **Total household earnings in the last 14 days**: We calculate total earnings at the household level by summing each of the subcomponents below. We consider components of total income as secondary outcomes:

- Agricultural and pastoral earnings in the past 14 days<sup>5</sup>
- Self-employment earnings in the past 14 days
- Wage earnings in the past 14 days

In addition to household earnings, we are also interested in other potential household cash inflows, and thus measure transfers and dissaving, which we consider as additional secondary outcomes. Our main measures for these look at the amounts the household has received, but we may also look at changes in the extensive margin using indicators for engaging in the activity

- Amount of support from government, NGOs/community groups and politicians in the past 14 days
- Net inter-household transfers in the past 14 days. When looking at the extensive margin, we look separately at sending and receiving transfers

4. **Total non-agricultural hours worked (in self-employment & employment) in the last 7 days**. Our primary measure of hours worked is hours in the non-agricultural sector, which proxies for work “outside the home”, and uses data reported for the full household, though

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<sup>5</sup> Since we only measure earnings from agricultural and pastoral in the past 14 days, we are likely to miss some agricultural income that households are living off of, so (as in many development surveys) we do not necessarily expect our measures of income and consumption to line up.

we will also calculate this at the respondent and individual level including all adult household members. Total hours outside the home is made up of the following components, which we analyze as secondary outcomes:

- Self-employment labor supply in the last 7 days
- Wage labor supply in the last 7 days

In addition to these outcomes, we also look at the following secondary measures:

- Agricultural labor supply in the last 7 days
- Total market labor supply (agricultural labor supply + total hours worked outside the home)
- Total child-care hours in the last 7 days
- Indicator for any household members actively looking for paid work or trying to start an enterprise

5. Psychological Well-Being: We generate an Anderson (2008) index from the following questions, coded so that positive values represent better outcomes (the starred outcomes below are reverse-coded). All questions ask about the past 7 days, and responses use a scale of 0 (not at all or less than 1 day), 1 (1-2 days), 2 (3-4 days), 3 (5-7 days):

- felt nervous, anxious, or on edge\*
- felt depressed
- felt lonely
- felt hopeful about the future
- had physical reactions, such as sweating, trouble breathing, nausea, or a pounding heart, when thinking about your experience (e.g., social distancing, loss of income/work, concerns about infection) with the coronavirus/COVID-19 pandemic

We will look at components of this index as well, specifically at whether respondents report being anxious about COVID-19, in order to assess whether the intervention increased anxiety around the COVID-19 pandemic.

## 5. Further Analyses

Here, we outline additional analyses that we plan to conduct. These are not meant to be exhaustive or to preclude additional analyses.

### 5.1 Heterogeneous Effects

First, we will examine heterogeneity by the content of the information treatment individuals receive by estimating a fully interacted regression equation for each of the different information treatments. We note that comparisons within information treatment arms may be underpowered, but this may still provide useful information to policymakers considering similar types of interventions in this context.

We estimate heterogeneous effects for our treatments by the following pre-specified dimensions by interacting these variables with our treatment variables: .

- Gender (indicator for female)\*
- Age (6-17,18-25, 26-45, 46-60, 60+)\*<sup>6</sup>
- Public location (for mask use)\*
- Pre-intervention income (quartiles)
- Pre-intervention consumption expenditure (quartiles)
- Indicator for being employed pre-intervention
- Indicator for having school-aged children in the household
- Indicator for having elderly (60+) household members

Variables marked with an \* are variables that we will use in heterogeneity analyses for direct observations as well, though here characteristics will be based on the observer's best guess, rather than household responses.

We anticipate exploring other dimensions of heterogeneity so the above list is not meant to be exhaustive.

## 5.2 Social Network Effects

As part of the role model intervention, we collect some details about respondents' social networks, and whether they are connected to the role model in advance of the intervention. Moreover, we collect detailed health-related interactions between households at mid- and endline (e.g whether, and whom, households talked to about health/covid/masks in the previous week). We will take advantage of variation in this measure to explore information flows through networks and heterogeneity in effects based on connectedness to a role model, features of the role model (or the role model's network) that may matter for information transmission, etc.

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<sup>6</sup> We only have information on those under 18 for direct observations.

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## **Appendix A: Survey Instruments**



d. Is there anyone else living in the household that is older than 18 years old and is available for a phone interview now?  Yes / No

**If No, SKIP to CLOSING STATEMENT. If Yes, Read:** May I speak to that person now? If that person is not available, ask for another time that would be more suitable and note it in the tracking sheet. Alternatively, ask for a different phone number where that person can be reached.

e. **Note:** Alternative phone number *Please note this down on your Tracking Sheet.*

f. **Note:** What date/time are you willing to schedule the interview for? *Please note this down on your Tracking Sheet.*

**End interview here. DO NOT submit form.**

5f. Date of interview: (DD/MM/YYYY)

/ /

5g. Time start interview: (24 hr clock)  :

**[Read Informed consent and data protection]**

6. Do you have any questions now?  Yes / No

**Read:** If you have any questions later, you can always call [OFFICE NUMBER].

7. Do you agree to participate in the survey? [VERBAL CONSENT]  Yes / No

**If No, CONTINUE to question 8. If Yes, SKIP to Section 2**

8. What is the main reason for not participating in the survey?

- I am busy → **SKIP to question 10**
- Refusal for this round only → **SKIP to question 9**
- Unable to survey - parent or contact refusal → **SKIP to CLOSING STATEMENT**
- Unable to survey - spouse refusal → **SKIP to CLOSING STATEMENT**
- Unable to survey - in prison → **SKIP to CLOSING STATEMENT**
- Unable to survey - mental illness / disability → **SKIP to CLOSING STATEMENT**
- Unable to survey - other: \_\_\_\_\_

9. Record your impressions of why the FR refuses to participate during this survey round. If you feel comfortable doing so, you may ask the FR why: Why don't you want to participate in this survey round? Choose up to 3 reasons.

/ /  Other: \_\_\_\_\_

1 = Survey is too long

- 2 = FR has caregiving duties
- 3 = FR has to work
- 4 = FR does not want to disclose personal information
- 5 = FR is suspicious of REMIT/KNBS/WB
- 6 = FR hasn't received assistance from REMIT/KNBS/WB and doesn't want to participate
- 7 = FR just doesn't want to / no reason given
- 10 = Other (specify)

**SKIP to CLOSING STATEMENT.**

10. a. Are you willing to schedule the interview for a later date or time?  Yes / No

b. **(If yes) Rescheduling instructions:** Please ask the FR when they are next available. If you cannot personally call back at this time, make a tentative appointment with the FR. Then, let the FR know that you will contact them to confirm when you will call back. Communicate the time with your TL to confirm if another person can call back. Record this information and the current time on the tracking sheet now. End the interview. **DO NOT submit this form.** Only submit a form if you either reached a household, or exhausted all attempts.

**CLOSING STATEMENT. Read:** Thank you very much for your time. If you change your mind and would like to participate in the interview, you may call me back any time. Here is my phone number [FO Phone Number]. End interview here.

**Section 2: Household Background**

**Part A: FR Information**

1. What is your full name, as it would appear on your national ID?  
 /  /   
 First name                  Middle name                  Last name

1a. What is your common name? *This is the name you are commonly referred to by household members / friends.* \_\_\_\_\_

2. What is your age in completed years?

3. Is the FR a man or a woman? **Do not read. Confirm if unsure.**  
 Male / female

4. What is the highest level of education you have completed? *Do not read.*  
 No Formal Education

- Pre-primary
- Primary
- Post-primary, vocational
- Secondary
- College, middle-level
- University undergraduate
- University postgraduate
- Madrassa/ Duksi
- Other, specify

5. Do you still live in [ROUND 1 RESIDENCE]/[GE CENSUS VILLAGE]?  Yes / No  
**If no, continue, otherwise, skip to question**

Where do you currently reside?

- a. County: *Use county codes*
- b. Subcounty: *Use subcounty codes*
- c. Sublocation: *Use sublocation codes*
- d. Village *Use village codes*

6. [question removed]

**IF NOW LIVING OUTSIDE UGUNJA SUBCOUNTY → TERMINATE THE SURVEY HERE, SKIP TO CONCLUSION.**

7. What is your marital status? *Do not read.*

- Single
- Married monogamous, living with spouse
- Married monogamous, not living with spouse
- Married polygamous, living with spouse
- Married polygamous, not living with spouse
- Not married, but living together
- Separated
- Divorced
- Widow or widower
- Never married

8. In case we cannot reach you on this phone number in the future, is there another phone number where we can reach you?  Yes / No

9. How many other numbers would you like to provide, so that we can reach out to you in the future? *Limit to 5 phone numbers.*

**Loop through phone numbers {**

a. Phone #:

b. Who's phone is this?

- Mine
- Someone in my household
- My friend's / relative
- My village chief'a
- Don't know
- Refused

c. What is this person's name? \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

}

### **Part B: Household Information**

**Read:** Now we'd like to talk about your household, defined as a person, or group of people that are taken care of by the same person, eat from the same pot" and have stayed together in the past 6 months and will stay for the next 6 month.

10. What is your relationship to the head of household? *Do not read.*

- Self
- Current spouse / partner
- Former spouse / partner
- Son/ Daughter
- Grandchild
- Sister/ Brother
- Father/ Mother
- Nephew/ Niece
- In-law
- Grandparent
- Other relative, specify: \_\_\_\_\_
- Non-relative

11. Currently, how many people in total (INCLUDING yourself) are in your household, "eat from the same pot" and spend 4 nights or more in an average week sleeping in your home? ***If the FR is live-in house help or a live-in guard and has a spouse or adult dependent(s) staying with them at the employer's house, only include these spouse/dependent(s) on the household roster (do not count their employer or the employer's family as part of the FR's household).***

- Adults (>= 18)
- School aged children (5 - 17)
- Young children (0 - 4)

12. Please list all current ADULT (>=18) members of the household (OTHER THAN the FR):

- a. Name  Age:  Gender:
- b. Name  Age:  Gender:

c. Name | \_\_\_\_\_ | Age: | \_\_\_\_ | Gender: | \_\_\_\_ |

d. ...

13. (If q10 not "SELF") Who is the household head? *Select one.*

[HH Member 1]

[HH Member 2]

[HH Member 3]

....

a. (If q15 not "SELF") What is the household head's full name? *This is the name, as it would appear on a government ID.*

| \_\_\_\_\_ | / | \_\_\_\_\_ | / | \_\_\_\_\_ |  
First name Middle name Last name

14. What is the predominant floor material of the [MAIN] dwelling unit? **Do not read.** *Select all that apply. Use materials codes (below).*

Earth/Sand

Dung

Wood Planks/Shingles

Palm/Bamboo

Parquet Or Polished Wood

Vinyl Or Asphalt Strips

Ceramic Tiles

Cement

Carpet

Other, please specify: \_\_\_\_\_

Don't know

Refused

15. What is the predominant wall material of the [MAIN] dwelling unit? **Do not read.** *Select all that apply. Use materials codes.*

No walls

Cane/Palm/Trunks

Grass/Reeds

Mud/Cow Dung

Bamboo with mud

Stone with mud

Uncovered adobe

Plywood

Cardboard

Reused wood

Corrugated iron sheets

Cement

Stone with lime/cement

- Bricks
- Cement blocks
- Covered adobe
- Wood planks/shingles
- Other, please specify: \_\_\_\_\_
- Don't know
- Refused

16. Does anyone in your household own any of the following? **Read all options out loud.**  
*Select all that apply.*

- None
- Radio
- Television
- Mattress
- Charcoal Jiko
- Refrigerator
- Generator
- Sewing machine
- Bicycle
- Motorcycle
- Don't know
- Refused

### **Section 2c: Education**

**Read:** Above, you told us that there [number of children] children between 5 and 17 in your household. I would now like to ask you some questions about one of your children.

17. Of these [number of children] children...

- a. how many are attending school in person?
- b. how many are attending school remotely?
- c. How many are attending daycare / other childcare in person?

18. Of these [number of children] children, how many have their own face covering or mask?

19. [question removed]

20. [question removed]

21. **(if yes)** Do they generally wear a mask when they leave the household?

- Yes, all the time
- Yes, sometimes
- No

**CTO: Select a random number (among the numbers of children) → [randomchild = 1<sup>st</sup> / 2<sup>nd</sup> / 3<sup>rd</sup>]**

**Read:** I would now ask some question about your [randomchild] oldest child:

22. What is [randomchild]'s

- a. Name? \_\_\_\_\_
- b. Gender? [\_\_\_\_] male / female
- c. Age? \_\_\_\_\_

23. In February 2020, was [Name] enrolled in school, and at what level?

- [\_\_\_\_] Pre-school
- [\_\_\_\_] Primary school
- [\_\_\_\_] Secondary school
- [\_\_\_\_] Tertiary education
- [\_\_\_\_] Other (please specify)
- [\_\_\_\_] Not enrolled in any school

24. Was [Name] going to public school, private school or both public and private school? *Do not read.*

- [\_\_\_\_] Public
- [\_\_\_\_] Private
- [\_\_\_\_] Both
- [\_\_\_\_] Don't know
- [\_\_\_\_] Refused

25. **(if not enrolled)** Why was [Name] not attending school or academic institutions in February 2020? *Do not read. Select all that apply.*

- [\_\_\_\_] No money -uniforms, transport, books, fees etc.
- [\_\_\_\_] Children needed to work/ Work in household
- [\_\_\_\_] School too far from home/ No school close by
- [\_\_\_\_] Fear of coronavirus infection
- [\_\_\_\_] Illness or disability
- [\_\_\_\_] Poor quality of schools
- [\_\_\_\_] School conflicts with beliefs
- [\_\_\_\_] Marriage
- [\_\_\_\_] Pregnancy
- [\_\_\_\_] Too old / young for school
- [\_\_\_\_] Other, specify: \_\_\_\_\_

26. Is [Name] planning to attend school once they reopen or is [Name] already attending school now?

- [\_\_\_\_] Yes, attending school now
- [\_\_\_\_] Yes, planning to attend when schools open

No, not planning to attend

27. **(if no)** Why not? *Check all that apply*

- Fear of contracting COVID19
- Unaware that schools are reopening
- No money-uniforms, transport, books, fees etc
- Children need to work/ work in household
- School too far from home/No school close b
- Illness or disability
- Poor quality of schools
- School conflicts with beliefs
- Marriage
- Pregnancy
- Working for pay
- Helping in a family business
- Providing childcare or elderly care
- Domestic work
- Won't pass exams anyway
- Other (please specify)

28. Where is [Name] staying during the day if they are not in school? *Select all that apply. (1=At home with a parent, 2=At home with another adult relative/friend, 3=At home by themselves, 4=Outside the home with a friend/relative, 5=Coming with family member to work, 6=Daycare / other childcare, 7=At home with maid / domestic helper, 8=Other (specify)*

\_\_\_\_\_

29. Has [Name] been engaged in any education or learning activities in the last week?

Yes / No / DK

a. **(if yes)** On average over the past week, how many hours a day did [Name] spend on education in the last week?

Hours

More than two hours each day (10+ hours/week)

About one hour each day (~5 hrs/ week)

About a half hour each day (~3hrs/week)

A few minutes each day (<1 hr/week)

None (0)

b. [question removed]

}

**Section 3: Travel Patterns & Interactions**

1. In the past 14 days, which household members visited a market center/village/supermarket for purchasing goods? *Tick all that apply*

- None
- FR
- HH member 2
- HH member 3
- ...
- Any child HH members

2. a. **(if FR selected)** How many times have you personally visited a market center/village/supermarket for purchasing or selling goods or services? *Count each visit separately. Include trips to a shop WITHIN the same village / neighborhood.*

- In the past 7 days:
- In the 7 days before that (between 14 to 7 days ago):

b. **(if ANY selected)** Which villages / market center(s) did you, or other adult members of the household, visit in the past 14 days? *Options according to location of current residence.*

- |  |  |
|--|--|
| <input type="checkbox"/> This village                  | <input type="checkbox"/> Market center 1     |
| <input type="checkbox"/> Nearby village 1              | <input type="checkbox"/> Market center 2     |
| <input type="checkbox"/> Nearby village 2              | <input type="checkbox"/> Market center 3     |
| <input type="checkbox"/> Nearby village 3              | <input type="checkbox"/> Other market center |
| <input type="checkbox"/> Nearby village 4              | <input type="checkbox"/> None of the above   |
| <input type="checkbox"/> Nearby village 5              | <input type="checkbox"/> Do not know         |
| <input type="checkbox"/> Other village in Siaya County |  |
| <input type="checkbox"/> Village outside Siaya County  |  |

3. a. Has any member of your household attended religious services, or ceremonies such as weddings or funerals, in person? If so, when? *Select all that apply.*

- Yes, this week (in the past 7 days)
- Yes, last week (between 14 to 7 days ago)
- Yes, since March 2020 / the lockdown
- No

b. **(if any selected)** Which denomination(s)? *Select all that apply.*  **Use g11 codes**

c. Where did you attend these services? *Select all that apply.*

- This village
- Nearby village 1
- Nearby village 2
- Nearby village 3
- Nearby village 4
- Nearby village 5

- Other village in Siaya County
- Village outside of Siaya County

4. a. In the past 14 days, which members of your household traveled to (and returned from) another town or city?

- None
- FR
- HH member 2
- HH member 3
- ...
- Any child HH member

b. (if any) Which city/town(s)? \_\_\_\_\_

5. In the past 14 days, did anyone from your household visit someone else's houses, or did anyone from outside the household visit your house for more than 15 minutes? *E.g. joint meals, working together, etc.*  Yes / No

b. Where did you visit these households / did these households visit you from? *Select all that apply.*

- This village
- Nearby village 1
- Nearby village 2
- Nearby village 3
- Nearby village 4
- Nearby village 5
- Other village in Siaya County
- Village outside of Siaya County

6. Taken together, how many people outside this household have you interacted with in-person? *By interact, we mean talk, touch, hug, etc. Do not count people you only crossed on the street and had no interaction with.*

Today   
 In the past 7 days:

7. How many people have you talked with on the phone or exchanged text messages with?

Today   
 In the past 7 days:

**Section 4: Employment**

**Section 4a: Farming**

1. In the past 14 days, have any household members performed any agricultural or pastoral activities? *Select all that apply.*
- Yes, agricultural activities
- Yes, pastoral activities (incl. Livestock, herding, fish ponds, fishing, poultry, etc.)
- No

**If No, SKIP to question 9.**

2. In the past 7 days, how many hours did each of the following household members perform those agricultural or pastoral activities? *Put 0 for those that did not work.*
- a. All adults combined combined      Hours:
- b. All children combined                      Hours:
3. In the past 14 days, how many workers from outside the household did your household employ for all agricultural and pastoral activities combined? *Include casual workers and volunteers.*

**If ONLY PASTORALIST, SKIP to question 9.**

4. What is the total size of the land you used for this activity in the last 12 months? *1 Hectare ≈ 2.5 Acres*  Acres
5. What is the most important crop for your household?
- Maize
- Sorghum
- Beans
- Cassava
- Millet
- Sugarcane
- Groundnuts
- Kale
- Sweet potato
- Banana / Plantain
- Coffee
- Tea
- Potatoes (Irish or White)
- Other: \_\_\_\_\_

6. In which phase of the crop cycle are you?
- Land preparation
- Planting
- Crop on the farm: Applying inputs, weeding

- Harvesting
- Selling
- None of the above (off-season)

- 7. [question removed]
- 8. [question removed]

**If ONLY AGRICULTURAL, SKIP to question 10.**

- 9. What is the current market value of all your livestock combined?  Ksh
- 10. **(if any ag activity)** In the past 14 days, what were the total earnings for your household for those agricultural and pastoralist activities combined?  Ksh

**Section 4b: Family business**

**Read:** Now we are going to ask you some questions about enterprises that you, or members of your household run, OTHER THAN FARMING.

- 11. Other than farming, how many non-agricultural self-employed enterprises are members of your household currently running?  *Enter 0 if none.*

***If > 0, loop through each enterprise. If none, go to question 23. {***

- 12.
  - a. Enterprise name: \_\_\_\_\_
  - b. What category is/was this enterprise? *Select one.*  
 *Use bizcat options*
  - c. Who is the primary owner / decisionmaker for this enterprise?
    - FR
    - HH member 2
    - HH member 3
    - ...
    - Non-Household Male
    - Non-Household Female

- 13. How many employees work in this enterprise? *Note: Count ALL the employees/workers; If FR is the enterprise owner and works in this enterprise, then the FR should be included in the count. Include temporary and part-time workers, and those that work for no pay.*

14. What were the total earnings / revenue (money in only - do not subtract any expenses) of this enterprise in the last 14 days? \_\_\_\_\_ | Ksh
15. What was the total profit of this enterprise over the past 14 days? *Note: In Ksh. Here we mean the amount you received after paying for expenses for this business, including hired workers, money for household members who helped, purchase of goods for sale or for inputs, such as raw materials, fuel, and electricity, but before purchasing personal items for yourself or your household. If unsure, FR can estimate. )* \_\_\_\_\_ | Ksh
16. Have you adjusted your business model due to the COVID-19 crisis? \_\_\_\_\_ | Yes / No  
**If Yes, skip to 16b, if No, CONTINUE**
- 16a. (if No) Are you planning to adjust your business model? \_\_\_\_\_ | Yes / No **If Yes, CONTINUE, if No, SKIP to question 17**
- 16b. What adjustments have you made or are you planning to make? *Do not read. Select all that apply.*
- Use of the phone for marketing, placing orders, customer service, etc.
  - Use of internet, online social media, specialized apps, or digital platforms
  - Switched to delivery service only
  - Changed product/service offering
  - Change location to avoid lockdowns
  - Change product range to be considered 'essential'
  - Change hours of operation
  - Visit customers at their home
  - Other: \_\_\_\_\_
17. Does this enterprise accept mobile money for payment? \_\_\_\_\_ | Yes / No  
a. (if yes) In the past 14 days, what share of your sales was done via mobile money? \_\_\_\_\_
18. [question removed]
19. Is it possible for you, and your employees to conduct their work from home? \_\_\_\_\_ | Yes / No  
a. (if yes) In the past 14 days, have you / your employees worked from home? *Working from home means that you / your employees conducted business at home. If they simply remained at home, but did not work, this would be coded as "No".*
- Yes, all the time
  - Yes, most of the time
  - Yes, sometimes
  - No, Explain: \_\_\_\_\_



24. How many employees work in the business that [NAME] works in as their main job? *If DK, can estimate.* |\_\_\_\_\_|

25. [question removed]

26. Does [NAME] currently receive any of the following benefits from their employer? **Read options.**

Medical Insurance

Social security coverage

Sick leave

Subsidized meals

Subsidized lodging

Other, specify: \_\_\_\_\_

None

27. Is [NAME] currently...

Working from home

Working partly from home, partly as usual

Going to work as the usual workplace outside the home

Not working

a. **(if going to work as usual)** Could [NAME] work from home in principle?  Yes / No

28. In the last 7 days, how many hours has [NAME] worked for wages? |\_\_\_\_\_| *Enter 0 if none.*

29. **(if > 0)** When at work, does [NAME]...

a. ... wear a face mask at work?  all the time / some of the time / no

b. ... maintain at least two arms' length / 6ft of distance to other workers or customers?

all the time / some of the time / no

30. In the past 14 days, what was the total cash salary of [NAME]? *Include only salary paid for work performed in the last 14 days. Also include the salary they EXPECT to get from the work performed in the last 14 days, even if they have not yet been paid. If an employee was paid even though they did not work, include this as well. Do not include pay for work performed more than 14 days ago.*

|\_\_\_\_\_| Ksh.

}

31. In the past 4 weeks, which household members were actively looking for paid work or tried to start any kind of business/income generating activity?

None

- FR
- HH member 2
- HH member 3
- ...

32. [question removed]

33. In the last 7 days, how many hours have you spent doing childcare for your household, even if it overlapped with other tasks?  hours (DK=-99, N/A=88)

**Section 5: Consumption & Food Security**

**Section 5.1: Consumption module**

1. **Read:** Think of all the food your household consumed in the last 7 days. How much, in total, did you consume from your own agricultural or pastoral production? *E.g. crops you grew, livestock you owned and slaughtered, animal products like eggs, etc.*  
 **Prompt for Ksh. If not in Ksh, ask how much that amount would have cost if they had bought it at the market over the last 7 days.**

2. In the last 7 days, did your household receive any gifts of food from other households for your consumption? *Include food you exchanged, shared meals, etc.*  
 Yes / No

2a. If yes, what was the total value of those gifts?  
 **Prompt for Ksh. If not in Ksh, ask how much that amount would have cost if they had bought it at the market over the last 7 days.**

3. **Read:** Now think of all the purchases your household made in the last 7 days.

CATEGORY	<p>In the past 7 days, how much did members of your household spend on [CATEGORY]?</p> <p><i>Prompt for shillings. If not in KSh, ask how much that amount would have cost if they had bought it at the market over the last 7 days.</i></p>
<p><b>Groceries</b> / <b>Food</b>          Include all meat, fish, eggs, dairy, oils, fats, vegetables, fruit, sugar products and drinks</p>	<p><input type="text"/> KSh</p>
	<p>In the past 2 weeks, how much did members of your</p>

	household spend on [CATEGORY]?  <i>Prompt for shillings. If not in KSh, ask how much that amount would have cost if they had bought it at the market over the last 2 weeks.</i>
<b>Household and personal items</b> soap, cleaning agents, toilet paper/tissues, air freshener, shoe polish, insecticide, matches, candles, toiletries, cosmetics	_____  KSh
<b>Assets / Durables.</b> <b>FO:</b> Read categories, and sum up 1 Vehicles (car, boat, bike, motorbike, handcarts, etc.) 2 Furniture (bed, chair, vases, mirror, etc.) 3 Kitchen and other equipment (cutlery, pots, pans, plates, etc.) 4 Electronic equipment, (lamps, mobile phone, television, etc.) 5 Tools 6 Livestock	_____  KSh
<b>Local Services</b> Maize grinding, haircuts, prepared meals eaten outside the home, bicycle repair, recreation, etc.	_____  KSh
<b>Communication</b> Airtime, internet, other phone expenses	_____  KSh
<b>Housing</b> Rent, mortgage, home maintenance and repairs	_____  KSh
<b>Energy and Utilities</b> Electricity, water, firewood, charcoal, kerosene	_____  KSh
<b>Transport</b> Petrol, tolls, transport such as taxi/bus/matatu/boda/piki/train/flight fare, hotel stays (NOT including medical reasons)	_____  KSh
<b>Medical expenses</b> consultation fees, medicines, hospital costs, lab test costs, ambulance costs, and related transport	_____  KSh

4. [question removed]

5. [question removed]

6. In the last 30 days, did you worry that your household would not have enough food? (1=Yes, 2=No) |\_\_|

	In the past 7 DAYS, how many days have ADULTS in your household...	In the past 7 DAYS, how many days have CHILDREN (<18) in your household...
7. ...gone to bed hungry?	a.  __	b.  __

8. ... skipped meals or cut the amount of meals?	a. <input type="checkbox"/>	b. <input type="checkbox"/>
9. ...gone entire days without food?	a. <input type="checkbox"/>	b. <input type="checkbox"/>

10. Did any of the meals your household ate yesterday include... (1=Yes, 2=No)

a. Meat or fish? *Omena (small fish) should be included. Do not include eggs*

b. Eggs?

### **Section 7: Transfers**

1. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods from another household? *Do not include transfers from the government or employers; also do not include loans or interest payments, or goods that the household purchased. If FR is in boarding school count gifts from parents as transfers.*

No

Yes

2a. **(if any yes)** What was the total value?  Ksh

2. In the past 14 days, did anyone in this household give or send money or goods to another household? (1=Yes, 2=No)

3a. **(if yes)** What was the total value?  Ksh

3. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods, or job from a government program? *Include all relevant government programs. Prompt and give a few examples.*

No

Yes

4a. **[if yes]** What was the total value?  Ksh

4. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods from a non-governmental organization or community group?

5a. **[if yes]** What was the total value?  Ksh

5. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods from an individual politician or government official?

6a. **[if yes]** What was the total value?  Ksh

## **Section 8: Subjective Welfare**

**Read:** I will read out a list of some of the ways you may feel or behave. Please indicate how many days you have felt this way during the past 7 days.

FO: Use the following scale while coding:

- 0 = Not at all or less than 1 day
- 1 = 1-2 days
- 2 = 3-4 days
- 3 = 5-7 days

Don't read: -88 = Refuse to answer

In the past 7 days, how many days.....

1. ...have you felt nervous, anxious, or on edge?
2. ...have you felt depressed?
3. ...have you felt lonely?
4. ...have you felt hopeful about the future?
5. ...have you had physical reactions, such as sweating, trouble breathing, nausea, or a pounding heart, when thinking about your experience (e.g., social distancing, loss of income/work, concerns about infection) with the coronavirus/COVID-19 pandemic?

FO: Use the following scale when coding:

1. Much better off than now
2. Somewhat better off than now
3. Same
4. Somewhat worse off than now
5. Much worse off than now
6. [question removed]
7. Compared to your household's financial well-being in February 2020, currently is your household [...]?
8. [question removed]
9. [question removed]
10. Relative to your current health, one year from now do you expect to be [...]?
11. **(if respondent < 50)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 50 years?
12. **(if respondent < 60)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 60 years?
13. **(if respondent < 70)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 70 years?

14. (if respondent < 80) On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 80 years?

**Section 9: Health**

**Read:** Now if you will permit me, I need to ask some more questions about your health. If we should come to any question that you do not want to answer, just let me know and we will go on to the next question. Are you in a private area where you can answer these questions?

1. Now I'm going to ask you some questions on your health that in some way may touch your private life. You may have experienced some of these illnesses or not. Please let me know if **you** have experienced any of these illnesses or symptoms in the past 14 days.

(A) Fever	<input type="text"/>	(G) Difficulty breathing / Chest tightness	<input type="text"/>
(B) Persistent cough	<input type="text"/>	(H) Runny nose	<input type="text"/>
(C) Always feeling tired	<input type="text"/>	(I) Sore throat	<input type="text"/>
(D) Muscle pain (myalgia)	<input type="text"/>	(J) Pneumonia	<input type="text"/>
(E) Headache	<input type="text"/>	(K) Loss of sense of smell / not being able to taste food	<input type="text"/>
(F) Diarrhea / Nausea / vomiting	<input type="text"/>	(L) None of the above	<input type="text"/>

**If YES to any, continue. If NO, skip to question 2.**

1a. How many days ago did these symptoms first appear?  Days

1b. Have these symptoms resolved?  Yes / No

2. In the past 14 days, which OTHER household members had any of the above symptoms?

*Exclude chronic conditions.*

None

HH member 2

HH member 3

...

Any child household member

2a. (if any) Have these symptoms resolved?  Yes / No

3. In the past 30 days, have you or any member of your household needed medical treatment or needed to make routine visits to a health facility? *Include check-ups, chronic illnesses, emergency visits, etc.?*  Yes / No

**If No, SKIP to question 13. If YES, continue.**

4. What was the reason for needing this treatment? *Select all that apply. Use major health problem codes (below)*

- Pregnancy - Prenatal checkups → **CONTINUE to question 5**
- Giving birth → **SKIP to question 7**
- Routine Check-Up: General Health → **CONTINUE to question 5**
- Routine Check-Up: Cancer → **CONTINUE to question 5**
- Routine Check-Up: Chronic heart disease → **CONTINUE to question 5**
- Routine Check-Up: Chronic lung disease → **CONTINUE to question 5**
- Malaria → **SKIP to question 7**
- Testing for Covid-19 / coronavirus → **SKIP to question 9**
- Flu-Like Symptoms (fever, cough, pneumonia, etc.) → **SKIP to question 7**
- Gastrointestinal Illness (Stomach Pain, Vomiting, Diarrhea, etc.) → **SKIP to question 7**
- HIV/AIDS related → **SKIP to question 7**
- Serious wound or injury → **SKIP to question 7**
- A major accident → **SKIP to question 7**
- Minor Pains (Back, Muscle, Knee, etc.) → **SKIP to question 7**
- For child's check-up (routine, vaccination, etc.) → **SKIP to question 7**
- Other, please specify: \_\_\_\_\_ → **SKIP to question 7**

5. **(if prenatal, or routine checkup)** Are you and/or this household member able to go for health check-ups as frequently as required? *Do not read.*

- As frequently as required
- Not as frequently but still able to go
- Not able to go at all

6. **(if not as frequently/not at all)** What is the reason for not being able to go as frequently as required or not able to go at all? *Do not read. Select all that apply.*

- Fear of getting infected due to Coronavirus
- Long waiting lines
- Consulting doctor not available or busy due to high demand
- Access to hospital denied
- Other reasons, please specify: \_\_\_\_\_
- Refused

7. **(if other health problem)** Were you and/or the member of your household able to access the medical treatment?  Yes / No

**If No , CONTINUE. If Yes, SKIP to question 9.**

8. **(if no)** What was the reason you or the member of your household were not able to access the medical treatment? *Do not read. Select all that apply.*

- Lack of money
- No medical personnel available
- Health facility had limited supplies
- Turned away because facility was full
- Far away from the healthcare provider
- Had other responsibilities (e.g. employment or housework)

- Didn't feel sick enough
- Other
- Refused

9. What kind of facility did you and/or the household member visit for these treatments? *Select all that apply.*

- Hospital
- Health center
- Private clinic
- Home (family)
- Home (traditional healer)
- Traditional healer (outside home)
- Drug shop
- Pharmacy
- Ordinary shop
- Other (specify the treatment location)

10. [question removed]

11. In the last 30 days, what were the number of hours you or members of your household lost from usual employment or household activities because of this illness/injury? *FO: Include any time lost from work, not just time spent seeking/receiving care. If multiple treatments were needed in past 30 days, or multiple members of your household were treated, add all together.*

12. Did any household member get tested for COVID-19? Which members of your household got tested for COVID-19? *Select all that apply.*

- None
- FR
- HH member 2
- HH member 3
- ...
- Any child household member

**(if none)** a. Did anyone try to get tested but was unable to?  Yes / No

**(if any) Loop through selected members {**

b. What was the outcome of the test for this person?  Positive / Negative / DK

**}**

13. In the last 30 days, has your household been unable to buy medicine?

- Yes / No / Not tried / Refused

14. In the past 12 months, which household members have been hospitalized, that is, had to stay in a health facility overnight? *Select all that apply.*

- None
- FR
- HH member 2
- HH member 3
- ...
- Any child household member

**(if any household member) Loop through selected members {**

- a. How many nights did [Name] stay in hospital?
  
- b. What was the reason? *Select all that apply. Use major health problem codes (below)*
  - Pregnancy
  - Giving birth
  - Cancer
  - Chronic heart disease
  - Chronic lung disease
  - Malaria
  - Covid-19 / coronavirus
  - Flu-Like Symptoms (fever, cough, pneumonia, etc.)
  - Gastrointestinal Illness (Stomach Pain, Vomiting, Diarrhea, etc.)
  - HIV/AIDS related
  - Serious wound or injury
  - A major accident
  - Pains (Back, Muscle, Knee, etc.)
  - Other, please specify: \_\_\_\_\_

}

15. Who are the people in this village, both within and outside of this neighborhood, that you and many villagers trust in matters related to health? For example, this is a person you and many others would go to for advice on health related issues.' *Name up to 5 people in order of their trustworthiness.*

- a. Name: \_\_\_\_\_  
 Phone number: \_\_\_\_\_, Repeat phone number: \_\_\_\_\_,  
 Which household does [Name] live in:  *Select from village roster*
- b. Name: \_\_\_\_\_  
 Phone number: \_\_\_\_\_, Repeat phone number: \_\_\_\_\_,  
 Which household does [Name] live in:  *Select from village roster*
- c. Name: \_\_\_\_\_  
 Phone number: \_\_\_\_\_, Repeat phone number: \_\_\_\_\_,  
 Which household does [Name] live in:  *Select from village roster*
- d. Name: \_\_\_\_\_  
 Phone number: \_\_\_\_\_, Repeat phone number: \_\_\_\_\_,  
 Which household does [Name] live in:  *Select from village roster*

- e. Name: \_\_\_\_\_  
 Phone number: \_\_\_\_\_, Repeat phone number: \_\_\_\_\_,  
 Which household does [Name] live in: \_\_\_\_\_ | *Select from village roster*

**Section 10: COVID-19 Knowledge**

1. [question removed]
2. Do you know anyone that has, or has had, COVID-19/coronavirus? *By knowing someone, we mean someone you could identify by name, and that you have interacted with.* (1=Yes, 0=No, -98=Refuse to answer) \_\_\_\_\_ | **If YES, continue. If NO skip to question 2c.**
  - a. Who are these persons? Select all that apply.
    - Self
    - Other household members
    - Family members living in [VILLAGE / TOWN] (parents, siblings, relatives)
    - Family members living in [COUNTY], but outside [VILLAGE / TOWN]
    - Family members living outside [COUNTY]
    - Someone from workplace
    - Friends living in this [VILLAGE / TOWN]
    - Friends living in [COUNTY], but outside [VILLAGE / TOWN]
    - Friends living outside [COUNTY]
    - Neighbors
    - Other: \_\_\_\_\_
    - Refuse to answer
  - b. [question removed]
  - c. Do you think people who have tested positive for Coronavirus will be perceived negatively by the community? \_\_\_\_\_ | Yes / No / Don't know
3. In case of exposure/ infection from COVID-19 would you have a place in your household to isolate a household member? \_\_\_\_\_ | Yes / No
4. What are the symptoms of COVID-19/coronavirus? *Select all that apply, list multiple symptoms under other if needed. (DO NOT READ, simply code the FR's response)*

1=Cough	11=Diarrhea
2=Fever	12=Skin rashes
3=Vomiting	13=Unexplained bruises
4=Pneumonia	14=Unexplained bleeding
5=Loss of sense of smell	15=Coughing blood
6=Pox / Boils / Rash	16=Nasal congestion
7=Nausea	17=Headache

8=Feeling unwell

9=Chronic fatigue/Feeling very tired

10=Sore throat

-77= Other (specify) \_\_\_\_\_

-99=DK

/  /

5. [question removed]

6. Has your behavior changed in any way since learning about covid-19? If so how? (**DO NOT READ, simply code the FR's response**)

None

Stay at home more

Wash hands more

Use hand sanitizer more frequently

Avoid handshakes / greetings

Cover mouth more when cough or sneeze

Wear face mask

Avoided groups and gatherings (church, family, etc.)

Travel outside of home area less

Returning home earlier at night

Go to work less

Stock up on food and other essentials

Drink warm/hot water

Eat fruits with vitamin C to boost immune system

Drink tea with lemon

Eat Lemon / Garlic / Avocado / Mango / any other type of food

Eat Alkaline foods

Drink bicarbonate/baking soda

Visited a doctor

Visited a traditional healer

Cancelled visit to a doctor

Prayed

Other: \_\_\_\_\_

a. (**if yes**) Take a moment to think about other households in your community. Out of 10 such households, how many do you think practice the measures you just stated... *Answers need to sum to 10*

More careful than me

Equally careful as me

Less careful than me

**Read:** I would like to remind you that this information is only used for research purposes, and that we will not share this information with anyone. Any responses that you give us will be confidential, that is, the researchers will not let anyone else know how you answered. You may

skip any question that you do not wish to answer.

7. In the past 7 days, did you wear a face mask or face covering when going to a public place?  
 1=Yes / 2=No-didn't wear a mask in public places / 3=No-didn't go to public place / -  
98= Refuse to answer.

**If No, CONTINUE. If Yes, SKIP to question 12.**

8. Do you own a mask?  Yes / No

- a. **(if yes)** What kind of face mask do you own? *If more than one, describe the one used most recently*

- Mask - Reusable  
 Mask - One-way  
 Simple face covering - Shirt / Cloth / etc.

- b. **(if yes)** What material is your mask made from?

- Cotton  
 Silk  
 Paper  
 Surgical mask -- non-woven fabric  
 N95 - approved medical material  
 Other: \_\_\_\_\_

- c. **(if yes)** Does your mask completely cover

- i. ... your mouth?  Yes / No  
ii. ... your nose?  Yes / No

- d. **(if yes)** What color is this mask?

- e. **(if yes)** Where did you obtain the mask that you have used most in the last 7 days?

- Self-made  
 Purchased  
 Gifted by an NGO  
 Gifted by a religious or social organization  
 Gifted by individual politician  
 Gifted by a political party / committee  
 Gifted by the local government (village, parish or district)  
 Gifted by the county government  
 Gifted by the national government  
 Gifted by a friend / someone in my community  
 Other: \_\_\_\_\_

- f. **(if purchased)** How much did your household spend on masks since February 2020?

Ksh

9. **(if not own)** Why do you not own a face mask?

Too expensive

I want to wear one, but could not get one

I don't want to wear one

Other, please specify: \_\_\_\_\_

10. **(if own)** Do you normally wear a mask?  Yes / No

**If No, CONTINUE. If Yes, skip to 14.**

11. Why do you not wear a face mask in public? *Select all that apply*

I forgot to bring it with me

It does not protect against covid

Covid-19 is not a serious illness

Covid-19 does not exist

It is uncomfortable

It does not look good

I don't like the government

I want my freedom

There are no consequences to not wearing a mask

a. **FO:** Please prompt carefully, and start an informal conversation about mask use. Try to get this person's view about why they are not wearing a mask. Describe their main points here.

---

### **SKIP to question 16**

12. **Read:** Think about the mask you wore most in the past 7 days:

a. What kind of face mask have you worn most in the past 7 days?

Mask - Reusable

Mask - One-way

Simple face covering - Shirt / Cloth / etc.

b. What material was this mask made from?

Cotton

Silk

Paper

Surgical mask -- non-woven fabric

N95 - approved medical material

Other: \_\_\_\_\_

c. Last time you wore your mask, did this mask completely cover...

i. ... your mouth?  Yes, all the time / Yes, sometimes / No

ii. ... your nose?  Yes, all the time / Yes, sometimes / No

d. Where did you obtain the mask that you have used most in the last 7 days?

Self-made

Purchased

Gifted by an NGO

Gifted by a religious or social organization

- Gifted by individual politician
- Gifted by a political party / committee
- Gifted by the local government (village, parish or district)
- Gifted by the county government
- Gifted by the national government
- Gifted by a friend / someone in my community
- Other: \_\_\_\_\_

e. **(if purchased)** How much did your household spend on masks since February 2020?  
 Ksh

13. Do you wear a mask regularly?  Yes / No

14. **(if yes)** When did you start wearing a mask regularly?

- In the last 7 days
- In the last 14 days
- December 2020
- November 2020
- Before November 2020

15. Did you wear a mask ... (1=Yes, all the time, 2=Yes, some of the time, 3 = No, 4 = DK)

- i. ... the last time you went to a market center?
- ii. ... the last time you attended a religious gathering?
- iii. ... the last time you used public transport?
- iv. ... the last time you visited a store in the village?
- v. ... the last time you visited another household?  
*We mean, when you reached that household, indoors or while talking to member of this household*
- vi. ... at work, the last day you worked?

b. **(if No to any)** Why did you not wear a face mask in public? *Select all that apply*

- I forgot to bring it with me
- It does not protect against covid
- Covid is not a serious illness
- Covid does not exist
- It is uncomfortable
- It does not look good
- I don't like the government
- I want my freedom
- There are no consequences to not wearing a mask
- Other: \_\_\_\_\_

16. Out of 10 other households in your village, how many do you think wear a mask or face covering... *Prompt for 0 out of 10*

- i. ... when they go to a market center  0 - 10
- ii. ... when they attend a religious gathering?  0 - 10
- iii. ... when they use public transport?  0 - 10
- iv. ... when they visit a store in your village?  0 - 10

- v. ... when they visit another household in your village?  0 - 10
- vi. ... at work?  0 - 10

17. Out of 10 other people wearing a face mask in your village, how many do you think wear it correctly, that is, completely covering their mouth and nose...? *For example, wearing a mask around the neck or chin would be considered incorrect.*

- a. Within the village:  1-10
- b. Outside the village:  1-10

18. What are the main reasons other people do not wear a face mask in public? *Select all that apply*

- They forget to bring it with them
- It does not protect against covid
- Covid-19 is not a serious illness
- Covid-19 does not exist
- Masks are uncomfortable
- Masks don't look good
- They don't like the government
- They want their freedom
- They are too young
- There are no consequences to not wearing a mask

a. **FO:** Please prompt carefully, and start an informal conversation about mask use. Try to get this person's view about why others are not wearing a mask. Describe their main points here.

---

**Read:** I would now like to ask you questions about specific situations in which people sometimes wear masks. I will repeat these questions for a few different circumstances so please bear with me. First we'll go through your typical behaviors in [name of village], and later i'll ask you about the same behaviors when you go outside of the village, especially when you go to the market. If the answers don't apply, just let me know.

19.

20. What sources have provided you with information about covid-19/coronavirus? *Select all that apply. (DO NOT READ, simply code the FR's response)*

*News Source Choice List:*

1=TV

2=Newspaper

3=National radio

4=Local (mother tongue) radio

5=International/Government agencies (Ministry of Health, WHO, CDC, etc)

6=News on internet

7=Whatsapp or SMS

8=Facebook

9=Twitter

- 10=Religious leaders (e.g., pastor, imam, etc.)
- 11=Local medical professionals (e.g., local pharmacist, doctors/nurses at community health center)
- 12=Other medical professionals (e.g., doctors, nurses, public health officials speaking on TV/Radio)
- 13=NGO's or CBO's
- 14=Political leaders (local or national)
- 15=Billboards or posters
- 16=School teachers
- 17=From friends, family, or colleagues
- 97=Other internet source (describe)
- 95=Other non-internet source (describe)
- 97=Other (describe)

21. What is your most trusted source of information about covid-19? *Select one from News Source Choice List (regardless of whether or not it was chosen).*

49. In the last 7 days, did you talk to people in THIS village about covid-19?

**(if yes)** What topics did you talk about? *Do not read. Simply record their answer. Select all that apply.*

- General covid-19 related conversations
- Health consequences of covid-19 (symptoms, etc.)
- Importance of face masks
- Other prevention measures (hand washing, etc.)
- Economic consequences of covid-19
- Government response to covid-19
- Other: \_\_\_\_\_

50. Which households did you speak to about health matters in the village? *Pre-load from census. Select all that apply.*

- HH 1
- HH 2
- HH 3
- HH 4
- ...
- Other households in the village

51. In the past 7 days, did you talk to people IN OTHER VILLAGES about health matters?

- Yes / No

52. In the past 7 days, did you talk about covid-19 and face masks, or receive text message reminders / promotions about masks from any of the following people? *Select all that apply.*

- a. Village elder: [Name]
- b. CHW 1: [Name]
- c. ...

1 = Yes, talked about covid-19, 2 = Yes, talked about masks, 3 = Yes, received text messages, 4 = No, 5 = DK

53. How does COVID-19/coronavirus spread? *Do not read. Simply record the answer.*

- Physical touching / hugging
- Surfaces
- Droplets in the air
- Breath
- Sexual activities
- Witchcraft
- Other, specify: \_\_\_\_\_

54. Do you believe COVID-19/coronavirus is a disease that can lead to serious illness and possibly death?  Yes/No

a. Do you think COVID-19/coronavirus is more serious, less serious, or about the same as a seasonal flu?

- more serious
- about the same
- less serious

55. Using the following scale, please indicate how much you agree or disagree with the following statement: Disagree=1 / Neutral= 2 / Agree = 3

- a. The use of masks in public would reduce the risk of contracting coronavirus   
 (if yes) Who do face masks protect? Select all that apply.  
 Those wearing a mask  
 Others  
 (if both) Who do they protect more?  wearers / others / DK
- b. Washing hands or using hand sanitizer reduces the risk of contracting coronavirus
- c. Keeping at least 2m / 2 arms length distance from others reduces the risk of contracting coronavirus
- d. Face masks are uncomfortable
- e. Face masks look unattractive
- f. Mask wearing is an individual choice  
 -- everyone can do what they think is right for them
- g. I get annoyed when others around me do not wear masks
- h. I speak out when others around me do not wear masks
- i. Others judge me for not wearing a mask in public spaces
- j. People that are not wearing masks are not good community members / citizens
- k. People that do not wear face masks should pay a fine

- i. (if yes) What would be an appropriate fine for someone not wearing a mask in a crowded market place?  KSh
- l. Wearing a face mask is a moral (not only a legal) obligation
- m. God will judge those that are not wearing masks
56. Which of the following statements do you believe is true about Siaya County *right now*?  
 People in Siaya County are at risk of getting COVID-19/coronavirus  
 There is little to no risk of getting COVID-19/coronavirus in Siaya County
57. Which of the following statements is true? True / False / DK
- a. Lemon and alcohol can be used as sanitizers against Coronavirus.
- b. Local herbs can be used to treat Coronavirus patients.
- c. Taking alcohol can make one immune to contracting Coronavirus.
- d. Africans are immune to Coronavirus.
- e. Coronavirus cannot survive in warm weather.
- f. People with a strong immune system don't have to worry about coronavirus
58. Which age groups do you believe are at risk of being *infected* with COVID? *Check all that apply.*
- Elderly
- Adults
- Young adults
- Children
- All age groups are at risk
- None
- Don't know
59. Which age groups do you believe are at risk of *being seriously ill or dying* from COVID? *Check all that apply*
- Elderly
- Adults
- Youth
- Children
- All age groups are at risk
- None
- Don't know
60. Do you believe men and women are equally at risk for being infected with COVID?
- Men more at risk
- women more at risk
- Men and women are equally at risk
- Don't know
61. To your knowledge, what measures can you adopt to reduce the risk of contracting coronavirus? ***Do not read. Give them enough time to answer, pause, maybe prompt.***

**Then record their answer.**

- Stay at home more
- Wash hands more
- Use hand sanitizer more frequently
- Avoided handshakes / greetings
- Cover mouth more when cough or sneeze
- Wear face mask
- Avoided groups and gatherings (church, family, etc.)
- Travel outside of home area less
- Returning home earlier at night
- Go to work less
- Stock up on food and other essentials
- Drink warm/hot water
- Eat fruits with vitamin C to boost immune system
- Drink tea with lemon
- Eat Lemon / Garlic / Avocado / Mango / any other type of food
- Eat Alkaline foods
- Drink bicarbonate/baking soda
- Visited a doctor
- Visited a traditional healer
- Cancelled visit to a doctor
- Prayed
- Other: \_\_\_\_\_

62. What steps has the government or local authorities taken to curb the spread of the Coronavirus in your area? **Do not read.** Prompt FO to list all the actions they are aware of. Select all that apply. It is important here to note down any other answers.

- Distributed free masks
- Distributed other health goods
- Advised citizens to stay at home
- Advised citizens to wash hands / use sanitizer
- Advised citizens to avoid people / gathering events
- Advised citizens to maintain enough distance when talking face-to-face
- Advised citizens to use masks / gloves
- Provided sanitizer, mask, soap for free / at reduced price
- Restricted travel within country or area
- Restricted international travel
- Closure of schools and universities
- Curfew
- Lockdown
- Closure of markets
- Closure of non essential businesses
- Cancelled market fees
- Cancelled business registration fees

- Reduced the salaries of politicians / officials
- Don't know

63. Are you feeling nervous or anxious due to the coronavirus outbreak?  Yes / No

a. **(if yes)** What is your major reason for worrying or being anxious? (**DO NOT READ, simply code the FR's response**)

- Loss of employment / business
- Fear of myself or family getting infected by coronavirus
- Fear of myself or family dying due to coronavirus
- Fear of me infecting others in the community
- Fear of being unable to feed or provide for family
- Fear of losing access to health facilities
- Effect on education system and school closures
- Economic Crisis/Paralyzed Movement
- Uncertainty of when lockdown will end / things will return to normal
- Other (specify): \_\_\_\_\_

64. If an approved vaccine to prevent coronavirus was available right now at no cost, would you agree to be vaccinated?

- Yes
- No
- Not sure

a. **(If No)** What are the reasons you would not agree to be vaccinated?

- I don't think it will work
- I don't think it will be safe
- I am worried about the side effects
- I am not enough at risk of contracting Covid-19
- I am against vaccines in general
- It is against my religion
- Other (specify)

b. **(If not sure)** What are the reasons you are not sure whether you would agree to be vaccinated?

- I don't think it will work
- I don't think it will be safe
- I am worried about the side effects
- I am not enough at risk of contracting Covid-19
- I am against vaccines in general
- It is against my religion
- Other (specify)

## **Section 11: Household and Social Relations**

**Read:** Now, I would like to ask you about your social activities and your views on society.

1. Generally speaking, would you say that most people can be trusted or that you need to be very careful in dealing with people? *Select one.*  
 Most people can be trusted  
 Need to be careful  
 Don't know  
 Refuse to answer
  
2. [question removed]
  
3. Are you satisfied with the government's response to the coronavirus crisis?  Yes / No / Don't know \ Refuse to answer
  
4. **(if no)** Why are you not satisfied with the federal/state government's response?  
 Limited Testing  
 No financial assistance from the government  
 Late response by government  
 Shortage of medical materials  
 Other (specify)
  
5. Using the following scale, please indicate how much you agree or disagree with the following statements: Disagree=1 / Neutral= 2 / Agree = 3
  - a. The Government is willing to provide health care to address the Coronavirus crisis:
  - b. The Government is able to provide health care to address the Coronavirus crisis:
  - c. [question removed]
  - d. You intend to follow the Government's guidelines to mitigate the spread of the coronavirus
  - e. Other people are following the Government's guidelines to mitigate the spread of the coronavirus.

## **Section 12: Conclusion**

1. **Read:** Thank you for your time. As an appreciation, airtime of [XXX] will be transferred to this number after the call.
  - a. Would you prefer for us to transfer the airtime to this number or a different one?  
 This number: [CURRENT LINE]  
 A different number (to specify)



7. How was the respondent's skill in speaking and understanding the survey language?

Displayed no problems speaking or understanding language

Displayed a little difficulty speaking or understanding language

Displayed moderate difficulty speaking or understanding language

Displayed serious problems speaking or understanding language

8. Are you very confident, somewhat confident or not very confident in the overall quality and truthfulness of this respondent's responses?

Very confident

Somewhat confident

Not confident

9. If SOMEWHAT or NOT CONFIDENT: Why?

---

10. Please note any other comments on the survey at this time:

---



c. Are you 18 years or older?  Yes / No

**If Yes, SKIP to INFORMED CONSENT. If No, CONTINUE.**

d. Is there anyone else living in the household that is older than 18 years old and is available for a phone interview now?  Yes / No

**If No, SKIP to CLOSING STATEMENT. If Yes, Read:** May I speak to that person now? If that person is not available, ask for another time that would be more suitable and note it in the tracking sheet. Alternatively, ask for a different phone number where that person can be reached.

e. **Note:** Alternative phone number *Please note this down on your Tracking Sheet.*

f. **Note:** What date/time are you willing to schedule the interview for? *Please note this down on your Tracking Sheet.*

**End interview here. DO NOT submit form.**

5f. Date of interview: (DD/MM/YYYY)

/ /

5g. Time start interview:

(24 hr clock)

:

**[Read Informed consent and data protection]**

6. Do you have any questions now?  Yes / No

**Read:** If you have any questions later, you can always call [OFFICE NUMBER].

7. Do you agree to participate in the survey? [VERBAL CONSENT]  Yes / No

**If No, CONTINUE to question 8. If Yes, SKIP to Section 2**

8. What is the main reason for not participating in the survey?

I am busy

→ **SKIP to question 10**

Refusal for this round only

→ **SKIP to question 9**

Unable to survey - parent or contact refusal

→ **SKIP to CLOSING STATEMENT**

Unable to survey - spouse refusal

→ **SKIP to CLOSING STATEMENT**

Unable to survey - in prison

→ **SKIP to CLOSING STATEMENT**

Unable to survey - mental illness / disability

→ **SKIP to CLOSING STATEMENT**

Unable to survey - other: \_\_\_\_\_

9. Record your impressions of why the FR refuses to participate during this survey round. If you feel comfortable doing so, you may ask the FR why: Why don't you want to participate in this survey round? Choose up to 3 reasons.

|\_|/|\_|/|\_| Other: \_\_\_\_\_

- 1 = Survey is too long
- 2 = FR has caregiving duties
- 3 = FR has to work
- 4 = FR does not want to disclose personal information
- 5 = FR is suspicious of REMIT/KNBS/WB
- 6 = FR hasn't received assistance from REMIT/KNBS/WB and doesn't want to participate
- 7 = FR just doesn't want to / no reason given
- 10 = Other (specify)

**SKIP to CLOSING STATEMENT.**

10. a. Are you willing to schedule the interview for a later date or time? |\_| Yes / No

b. **(If yes) Rescheduling instructions:** Please ask the FR when they are next available. If you cannot personally call back at this time, make a tentative appointment with the FR. Then, let the FR know that you will contact them to confirm when you will call back. Communicate the time with your TL to confirm if another person can call back. Record this information and the current time on the tracking sheet now. End the interview. **DO NOT submit this form.** Only submit a form if you either reached a household, or exhausted all attempts.

**CLOSING STATEMENT. Read:** Thank you very much for your time. If you change your mind and would like to participate in the interview, you may call me back any time. Here is my phone number [FO Phone Number]. End interview here.

**Section 2: Household Background**

**Part A: FR Information**

1. What is your full name, as it would appear on your national ID?

|\_|\_|\_|\_| / |\_|\_|\_|\_| / |\_|\_|\_|\_|  
First name Middle name Last name

1a. What is your common name? *This is the name you are commonly referred to by household members / friends.* \_\_\_\_\_

2. What is your age in completed years? |\_|\_|\_|\_|

3. Is the FR a man or a woman? **Do not read. Confirm if unsure.**  
|\_|\_| Male / female

4. What is the highest level of education you have completed? *Do not read.*

- No Formal Education
- Pre-primary
- Primary
- Post-primary, vocational
- Secondary
- College, middle-level
- University undergraduate
- University postgraduate
- Madrassa/ Duksi
- Other, specify

5. Do you still live in [ROUND 1 RESIDENCE]/[GE CENSUS VILLAGE]?  Yes / No  
***If no, continue, otherwise, if yes, skip to section 3***

Where do you currently reside?

- a. County: *Use county codes*
- b. Subcounty: *Use subcounty codes*
- c. Sublocation: *Use sublocation codes*
- d. Village *Use village codes*

6. Did you move before 2021?  Yes / No

**IF NOW LIVING OUTSIDE UGUNJA SUBCOUNTY AND MOVE BEFORE 2021 →  
TERMINATE THE SURVEY HERE, SKIP TO CONCLUSION.**

**Section 3: Travel Patterns & Interactions**

1. In the past 14 days, which household members visited a market center/village/supermarket for purchasing goods? *Tick all that apply.*

- None
- FR
- HH member 2
- HH member 3
- ...
- Any other adult HH member
- Any child HH members

2. a. **(if FR selected)** How many times have you personally visited a market center/village/supermarket for purchasing or selling goods or services? *Count each visit separately. Include trips to a shop WITHIN the same village / neighborhood.*

- In the past 7 days:
- In the 7 days before that (between 14 to 7 days ago):

3. Has any member of your household attended religious services, or ceremonies such as weddings or funerals, in person? If so, when? *Select all that apply.*

- Yes, this week (in the past 7 days)
- Yes, last week (between 14 to 7 days ago)
- Yes, since March 2020 / the lockdown
- No

4. a. In the past 14 days, which members of your household traveled to (and returned from) another town or city? *Select all that apply.*

- None
- FR
- HH member 2
- HH member 3
- ...
- Any other adult HH member
- Any child HH member

b. (if any) Which city/town(s)? \_\_\_\_\_

5. In the past 14 days, did anyone from your household visit someone else's houses, or did anyone from outside the household visit your house for more than 15 minutes? *E.g. joint meals, working together, etc.*  Yes / No

6. Taken together, how many people outside this household have you interacted with in-person? *By interact, we mean talk, touch, hug, etc. Do not count people you only crossed on the street and had no interaction with.*

Yesterday    
In the past 7 days:

7. How many people have you talked with on the phone or exchanged text messages with?

Yesterday    
In the past 7 days:

#### **Section 4a: Farming**

1. In the past 14 days, what were the total earnings for your household for all agricultural and pastoralist activities combined? *Enter 0 if none.*  Ksh

#### **Section 4b: Family business**

**Read:** Now we are going to ask you some questions about enterprises that you, or members of your household run, OTHER THAN FARMING.

2. Other than farming, how many non-agricultural self-employed enterprises are members of your household currently running?  Enter 0 if none.
3. What was the total profit of those enterprises combined over the past 14 days? *Note: In Ksh. Here we mean the amount you received after paying for expenses for this business, including hired workers, money for household members who helped, purchase of goods for sale or for inputs, such as raw materials, fuel, and electricity, but before purchasing personal items for yourself or your household. If unsure, FR can estimate.* )  Ksh

**Section 4c: Wage Employment**

4. Which ADULT household members are currently employed, working for pay? *Include work that is not paid, but is done for training purposes, such as volunteering, internships, traineeships, etc. Select all that apply.*
  - None
  - FR
  - HH member 2
  - HH member 3
  - ...
  - Any other adult HH member

***If any currently employed, LOOP through each. O/w skip to question 33 {***

5. a. **(if individual)** In the past 14 days, what was the total cash salary of [NAME]? *Include only salary paid for work performed in the last 14 days. Also include the salary they EXPECT to get from the work performed in the last 14 days, even if they have not yet been paid. If an employee was paid even though they did not work, include this as well. Do not include pay for work performed more than 14 days ago.*

Ksh.

- b. **(if any other adults)** In the past 14 days, what was the total cash salary of all these other adults combined? *Include only salary paid for work performed in the last 14 days. Also include the salary they EXPECT to get from the work performed in the last 14 days, even if they have not yet been paid. If an employee was paid even though they did not work, include this as well. Do not include pay for work performed more than 14 days ago.*

Ksh.

**}**

**Section 9: Health**

**Read:** *Now if you will permit me, I need to ask some more questions about your health. If we should come to any question that you do not want to answer, just let me know and we will go on to the next question. Are you in a private area where you can answer these questions?*

1. Now I'm going to ask you some questions on your health that in some way may touch your private life. You may have experienced some of these illnesses or not. Please let me know if **you** have experienced any of these illnesses or symptoms in the past 14 days.

(A) Fever	<input type="checkbox"/>	(G) Difficulty breathing / Chest tightness	<input type="checkbox"/>
(B) Persistent cough	<input type="checkbox"/>	(H) Runny nose	<input type="checkbox"/>
(C) Always feeling tired	<input type="checkbox"/>	(I) Sore throat	<input type="checkbox"/>
(D) Muscle pain (myalgia)	<input type="checkbox"/>	(J) Pneumonia	<input type="checkbox"/>
(E) Headache	<input type="checkbox"/>	(K) Loss of sense of smell / not being able to taste food	<input type="checkbox"/>
(F) Diarrhea / Nausea / vomiting	<input type="checkbox"/>	(L) None of the above	<input type="checkbox"/>

**If YES to any, continue. If NO, skip to question 2.**

1a. How many days ago did these symptoms first appear?  Days

1b. Have these symptoms resolved?  Yes / No

2. In the past 14 days, which OTHER household members had any of the above symptoms?

*Exclude chronic conditions.*

None

HH member 2

HH member 3

...

Any other adult HH member

Any child household member

2a. **(if any)** Have these symptoms resolved?  Yes / No

3. Which members of your household got tested for COVID-19? *Select all that apply.*

None

FR

HH member 2

HH member 3

...

Any other adult HH member

Any child household member

**(if none)** a. Did anyone try to get tested but was unable to?  Yes / No

**(if any) Loop through selected members {**

b. What was the outcome of the test for this person?  Positive / Negative / DK

c. What kind of test?

Temperature screening

- PCR - nasal / throat swab for current infection, tested in the lab
- Antigen - nasal / throat swab for current infection, answer within a few hrs
- Antibody test - test for any past infection
- Other: \_\_\_\_\_

}

**Section 10: COVID-19 Knowledge**

1. [question removed]
2. Do you know anyone that has, or has had, COVID-19/coronavirus? *By knowing someone, we mean someone you could identify by name, and that you have interacted with.* (1=Yes, 0=No, -98=Refuse to answer)  **If YES, continue. If NO skip to question 2c.**

a. Who are these persons? Select all that apply.

- Self
- Other household members
- Family members living in [VILLAGE / TOWN] (parents, siblings, relatives)
- Family members living in [COUNTY], but outside [VILLAGE / TOWN]
- Family members living outside [COUNTY]
- Someone from workplace
- Friends living in this [VILLAGE / TOWN]
- Friends living in [COUNTY], but outside [VILLAGE / TOWN]
- Friends living outside [COUNTY]
- Neighbors
- Other: \_\_\_\_\_
- Refuse to answer

b. [question removed]

c. Do you think people who have tested positive for Coronavirus will be perceived negatively by the community?  Yes / No / Don't know

3. What are the symptoms of COVID-19/coronavirus? *Select all that apply, list multiple symptoms under other if needed. (DO NOT READ, simply code the FR's response)*

- |                          |                            |
|--------------------------|----------------------------|
| 1=Cough                  | 11=Diarrhea                |
| 2=Fever                  | 12=Skin rashes             |
| 3=Vomiting               | 13=Unexplained bruises     |
| 4=Pneumonia              | 14=Unexplained bleeding    |
| 5=Loss of sense of smell | 15=Coughing blood          |
| 6=Pox / Boils / Rash     | 16=Nasal congestion        |
| 7=Nausea                 | 17=Headache                |
| 8=Feeling unwell         | -77= Other (specify) _____ |

9=Chronic fatigue/Feeling very tired      -99=DK  
10=Sore throat

|\_| / |\_| / |\_|

5. [question removed]
6. Has your behavior changed in any way since learning about covid-19? If so how? (**DO NOT READ, simply code the FR's response**)

- None
- Stay at home more
- Wash hands more
- Use hand sanitizer more frequently
- Avoid handshakes / greetings
- Cover mouth more when cough or sneeze
- Wear face mask
- Avoided groups and gatherings (church, family, etc.)
- Travel outside of home area less
- Returning home earlier at night
- Go to work less
- Stock up on food and other essentials
- Drink warm/hot water
- Eat fruits with vitamin C to boost immune system
- Drink tea with lemon
- Eat Lemon / Garlic / Avocado / Mango / any other type of food
- Eat Alkaline foods
- Drink bicarbonate/baking soda
- Visited a doctor
- Visited a traditional healer
- Cancelled visit to a doctor
- Prayed
- Other: \_\_\_\_\_

a. Take a moment to think about other households in your community. Out of 10 such households, how many do you think practice covid-19 measures ... *Answers need to sum to 10*

- More careful than you
- Equally careful as you
- Less careful than you

**Read:** I would like to remind you that this information is only used for research purposes, and that we will not share this information with anyone. Any responses that you give us will be confidential, that is, the researchers will not let anyone else know how you answered. You may skip any question that you do not wish to answer.

7. In the past 7 days, did you wear a face mask or face covering when going to a public place?  
 1=Yes / 2=No-didn't wear a mask in public places / 3=No-didn't go to public place / -  
98= Refuse to answer.

**If No, CONTINUE. If Yes, SKIP to question 12.**

8. Do you own a mask?  Yes / No

- a. **(if yes)** What kind of face mask do you own? *If more than one, describe the one used most recently*

TIBANISISI Mask  
 Mask - Reusable  
 Mask - One-way  
 Simple face covering - Shirt / Cloth / etc.

- b. **(if yes)** What material is your mask made from?

Cotton  
 Silk  
 Paper  
 Surgical mask -- non-woven fabric  
 N95 - approved medical material  
 Other: \_\_\_\_\_

- c. **(if yes)** Where did you obtain the mask that you have used most in the last 7 days?

Self-made  
 Purchased  
 Gifted by an NGO  
 Gifted by a religious or social organization  
 Gifted by individual politician  
 Gifted by a political party / committee  
 Gifted by the local government (village, parish or district)  
 Gifted by the county government  
 Gifted by the national government  
 Gifted by a friend / someone in my community  
 Other: \_\_\_\_\_

- d. **(if purchased)** How much did your household spend on masks since February 2020?

Ksh

9. **(if not own)** Why do you not own a face mask?

Too expensive  
 I want to wear one, but could not get one  
 I don't want to wear one  
 Other, please specify: \_\_\_\_\_

10. (if own) Do you normally wear a mask?  Yes / No  
**If No, CONTINUE. If Yes, skip to 12.**

11. Why do you not wear a face mask in public? *Select all that apply*

- I forgot to bring it with me
- It does not protect against covid
- Covid-19 is not a serious illness
- Covid-19 does not exist
- It is uncomfortable
- It does not look good
- I don't like the government
- I want my freedom
- There are no consequences to not wearing a mask

a. **FO:** Please prompt carefully, and start an informal conversation about mask use. Try to get this person's view about why they are not wearing a mask. Describe their main points here.

---

**SKIP to question 14**

12. **Read:** Think about the mask you wore most in the past 7 days:

a. What kind of face mask have you worn most in the past 7 days?

- TIBANISISI Mask
- Mask - Reusable
- Mask - One-way
- Simple face covering - Shirt / Cloth / etc.

b. What material was this mask made from?

- Cotton
- Silk
- Paper
- Surgical mask -- non-woven fabric
- N95 - approved medical material
- Other: \_\_\_\_\_

c. Last time you wore your mask, did this mask completely cover...

- i. ... your mouth?  Yes, all the time / Yes, sometimes / No
- ii. ... your nose?  Yes, all the time / Yes, sometimes / No

d. Where did you obtain the mask that you have used most in the last 7 days?

- Self-made
- Purchased
- Gifted by an NGO
- Gifted by a religious or social organization
- Gifted by individual politician
- Gifted by a political party / committee
- Gifted by the local government (village, parish or district)
- Gifted by the county government
- Gifted by the national government

Gifted by a friend / someone in my community  
 Other: \_\_\_\_\_

- e. In the last 7 days, have you washed this face mask?  Yes / No
- i. **(if yes)** With soap?  Yes / No
  - ii. **(if yes)** How many times?

13. Do you wear a mask regularly?  Yes / No

14. **(if yes)** When did you start wearing a mask regularly?

- In the last 7 days
- In the last 14 days
- Before 2021

15. Did you wear a mask ... (1=Yes, all the time, 2=Yes, some of the time, 3 = No, 4 = DK)

- i. ... the last time you went to a market center?
- ii. ... the last time you attended a religious gathering?
- iii. ... the last time you used public transport?
- iv. ... the last time you visited a store in the village?
- v. ... the last time you visited another household?  
*We mean, when you reached that household, indoors or while talking to member of this household*
- vi. ... at work, the last day you worked?

b. **(if No to any)** Why did you not wear a face mask in public? *Select all that apply*

- I forgot to bring it with me
- It does not protect against covid
- Covid is not a serious illness
- Covid does not exist
- It is uncomfortable
- It does not look good
- I don't like the government
- I want my freedom
  
- There are no consequences to not wearing a mask
- Other: \_\_\_\_\_

16. Out of 10 other households in your village, how many do you think wear a mask or face covering... *Prompt for 0 out of 10*

- i. ... when they go to a market center  0 - 10
- ii. ... when they attend a religious gathering?  0 - 10
- iii. ... when they use public transport?  0 - 10
- iv. ... when they visit a store in your village?  0 - 10
- v. ... when they visit another household in your village?  0 - 10
- vi. ... at work?  0 - 10

17. What are the main reasons OTHER people do not wear a face mask in public? *Select all that apply*

- They forget to bring it with them
- They think it does not protect against covid
- They think covid-19 is not a serious illness
- They think covid-19 does not exist
- Masks are uncomfortable
- Masks don't look good
- They don't like the government
- They want their freedom
- They are too young
- There are no consequences to not wearing a mask

49. In the last 7 days, did you talk to people in THIS village about covid-19?  Yes / No

a. (if yes) What topics did you talk about? *Do not read. Simply record their answer. Select all that apply.*

- General covid-19 related conversations
- Health consequences of covid-19 (symptoms, etc.)
- Importance of face masks
- Other prevention measures (hand washing, etc.)
- Economic consequences of covid-19
- Government response to covid-19
- Other: \_\_\_\_\_

50. Which households did you speak to about covid-19 in the village? *Pre-load from census. Select all that apply.*

- HH 1
- HH 2
- HH 3
- HH 4
- ...
- Other households in the village

51. In the past 7 days, did you talk to people IN OTHER VILLAGES about covid-19?

Yes / No

52. In the past 7 days, did you talk about covid-19 and face masks, or receive text message reminders / promotions about masks from any of the following people? *Select all that apply.*

a. Role model 1: [Name]

b. Role model 2: [Name]

1 = Yes, talked about covid-19, 2 = Yes, talked about masks, 3 = Yes, received text messages, 4 = No, 5 = DK

**Read:** Now we will ask you a few questions about coronavirus / covid-19:

53. How does COVID-19/coronavirus spread? *Do not read. Simply record the answer.*

- Physical touching / hugging
- Surfaces
- Droplets in the air
- Breath
- Sexual activities
- Witchcraft
- Other, specify: \_\_\_\_\_

54. Do you believe COVID-19/coronavirus is a disease that can lead to serious illness and possibly death?  Yes/No

a. Do you think COVID-19/coronavirus is more serious, less serious, or about the same as a seasonal flu?

- more serious
- about the same
- less serious

55. Using the following scale, please indicate how much you agree or disagree with the following statement: Disagree=1 / Neutral= 2 / Agree = 3

a. The use of masks in public reduces the risk of contracting coronavirus

**(if yes)** Who do face masks protect? *Select all that apply.*

- Those wearing a mask
- Others

**(if both)** Who do they protect more?  wearers / others / equally / DK

- b. Washing hands or using hand sanitizer reduces the risk of contracting coronavirus
- c. Keeping at least 2m / 2 arms length distance from others reduces the risk of contracting coronavirus
- d. Face masks are uncomfortable
- e. Face masks look unattractive
- f. Mask wearing is an individual choice  
-- everyone can do what they think is right for them
- g. I get annoyed when others around me do not wear masks
- h. I speak out when others around me do not wear masks
- i. Others judge me for not wearing a mask in public spaces
- j. People that are not wearing masks are not good community members / citizens
- k. People that do not wear face masks should pay a fine 
  - i. **(if yes)** What would be an appropriate fine for someone not wearing a mask in a crowded market place?  KSh
- l. Wearing a face mask is a *moral* (not only a legal) obligation
- m. God will judge those that are not wearing masks

56. Which of the following statements do you believe is true about Siaya County *right now*?

- People in Siaya County are at risk of getting COVID-19/coronavirus  
 There is little to no risk of getting COVID-19/coronavirus in Siaya County

57. Which of the following statements is true? True / False / DK

- a. Lemon and alcohol can be used as sanitizers against Coronavirus.   
b. Local herbs can be used to treat Coronavirus patients.   
c. Taking alcohol can make one immune to contracting Coronavirus.   
d. Africans are immune to Coronavirus.   
e. Coronavirus cannot survive in warm weather.   
f. People with a strong immune system don't have to worry about coronavirus

58. Which age groups do you believe are at risk of being *infected* with COVID? *Check all that apply.*

- Elderly  
 Adults  
 Young adults  
 Children  
 All age groups are at risk  
 None  
 Don't know

59. Which age groups do you believe are at risk of *being seriously ill or dying* from COVID? *Check all that apply*

- Elderly  
 Adults  
 Youth  
 Children  
 All age groups are at risk  
 None  
 Don't know

60. Do you believe men and women are equally at risk for being infected with COVID?

- Men more at risk  
 women more at risk  
 Men and women are equally at risk  
 Don't know

61. To your knowledge, what measures can you adopt to reduce the risk of contracting coronavirus? ***Do not read. Give them enough time to answer, pause, maybe prompt. Then record their answer.***

- Stay at home more  
 Wash hands more  
 Use hand sanitizer more frequently

- Avoided handshakes / greetings
- Cover mouth more when cough or sneeze
- Wear face mask
- Avoided groups and gatherings (church, family, etc.)
- Travel outside of home area less
- Returning home earlier at night
- Go to work less
- Stock up on food and other essentials
- Drink warm/hot water
- Eat fruits with vitamin C to boost immune system
- Drink tea with lemon
- Eat Lemon / Garlic / Avocado / Mango / any other type of food
- Eat Alkaline foods
- Drink bicarbonate/baking soda
- Visited a doctor
- Visited a traditional healer
- Cancelled visit to a doctor
- Prayed
- Other: \_\_\_\_\_

62. What steps has the government or local authorities taken to curb the spread of the Coronavirus in your area? **Do not read.** Prompt FO to list all the actions they are aware of. Select all that apply. It is important here to note down any other answers.

- Distributed free masks
- Distributed other health goods
- Advised citizens to stay at home
- Advised citizens to wash hands / use sanitizer
- Advised citizens to avoid people / gathering events
- Advised citizens to maintain enough distance when talking face-to-face
- Advised citizens to use masks / gloves
- Provided sanitizer, mask, soap for free / at reduced price
- Restricted travel within country or area
- Restricted international travel
- Closure of schools and universities
- Curfew
- Lockdown
- Closure of markets
- Closure of non essential businesses
- Cancelled market fees
- Cancelled business registration fees
- Reduced the salaries of politicians / officials
- Don't know

63. a. If you are caught not wearing a mask by a government official / police officer, what do you think the likely consequences would be? *Select all that apply.*

- None
  - Friendly encouragement / reminder
  - Reprimand verbally / harrassment
  - Collect a fine
- (if yes) How much:  KSh

- Physical enforcement / violence
- Other, describe: \_\_\_\_\_

b. If you are not wearing a mask, how likely do you think you will get caught / reprimanded by a government official / police officer...

1 = Never, 2 = Rarely, 3 = Sometimes, 4 = Often, 5 = Every time

- i. ... when you go to a market center  1 - 5
- ii. ... when you attend a religious gathering?  1 - 5
- iii. ... when you use public transport?  1 - 5
- iv. ... when you visit a store in your village?  1 - 5
- v. ... when you visit another household in your village?  1 - 5

64. Are you feeling nervous or anxious due to the coronavirus outbreak?  Yes / No

a. (if yes) What is your major reason for worrying or being anxious? (**DO NOT READ, simply code the FR's response**)

- Loss of employment / business
- Fear of myself or family getting infected by coronavirus
- Fear of myself or family dying due to coronavirus
- Fear of me infecting others in the community
- Fear of being unable to feed or provide for family
- Fear of losing access to health facilities
- Effect on education system and school closures
- Economic Crisis/Paralyzed Movement
- Uncertainty of when lockdown will end / things will return to normal
- Other (specify): \_\_\_\_\_

65. If an approved vaccine to prevent coronavirus was available right now at no cost, would

- |                          |       |     |    |             |
|--------------------------|-------|-----|----|-------------|
| you                      | agree | to  | be | vaccinated? |
| <input type="checkbox"/> |       |     |    | Yes         |
| <input type="checkbox"/> |       |     |    | No          |
| <input type="checkbox"/> |       | Not |    | sure        |

a. (If No) What are the reasons you would not agree to be vaccinated?

- I don't think it will work
- I don't think it will be safe
- I am worried about the side effects

- I am not enough at risk of contracting Covid-19
- I am against vaccines in general
- It is against my religion
- Other (specify)

b. **(If not sure)** What are the reasons you are not sure whether you would agree to be vaccinated?

- I don't think it will work
- I don't think it will be safe
- I am worried about the side effects
- I am not enough at risk of contracting Covid-19
- I am against vaccines in general
- It is against my religion
- Other (specify)

### **Section 11: Intervention**

1. Did this household receive free masks from the community health worker: [CHW name]?

(1=Yes, 2=No)  **If YES, continue. If NO, SKIP to question 2.**

a. How many?

b. Do you still own the masks that were given to you for free by [CHW name]?

Yes / No

i. **(if NO)** Why do you no longer own this face mask?

Lost it

Broken

Gave it to someone else

Other, describe:

---

2. Other than these masks provided by the CHW, does the household have other masks / face coverings?

(1=Yes, 2=No)

3. **(if YES)** How do the masks provided by the community health worker compare to the masks already owned by your household?

CHW masks are better than previously owned masks

Same

CHW masks are worse than previously owned masks

4. Did you, or anyone in your household, receive any of the following in the last 4 weeks?

a. Information on covid-19 from your CHW: [CHW name]  Yes / No / DK

- b. Information on how to correctly wear a mask from your CHW: [CHW name]  Yes / No / DK
- c. Information on how masks work from a research organization called REMIT  Yes / No / DK
- d. Information on covid-19 transmission from a research organization called REMIT  Yes / No / DK
- e. Information on how to remember your mask when leaving your house from a research organization called REMIT  Yes / No / DK

**Section 12: Conclusion**

1. **Read:** Thank you for your time. As an appreciation, airtime of [50Ksh] will be transferred to this number after the call.
  - a. Would you prefer for us to transfer the airtime to this number or a different one?
    - This number: [CURRENT LINE]
    - A different number (to specify)
  - b. **(if different)** Please provide it now:
    -

**Read:** We may call again in a few weeks and we may send you a few questions via text message.. We would appreciate it if you answer, and will thank you for your participation with another gift.

**AFTER YOU END THE CONVERSATION**

2. Did the respondent terminate the survey early?  Yes / No
  - 3a. **(if yes)** Why did the respondent terminate the survey early?
    - Temporary stop only - Wishes to continue survey at a later time.  
**Go to Temporary Stop Instructions**
    - Tired
    - Too busy, does not have time
    - Offended at question
    - Suspicious of FO/ survey intent / REMIT
    - Does not feel like continuing the survey
    - Call dropped, unable to reach respondent again
    - Other (specify)

**Temporary Stop Instructions:** You have indicated that the FR wishes to continue the survey in the future. Please ask the FR when they are next available, and then call your team lead (or other senior team member) to confirm this day and time. If you are unable to confirm this day

and time, make a tentative appointment with the FR. Then, let the FR know that you will contact them to confirm when you will return. Record this information and the current time on the tracking sheet now.

3. Was this call dropped or interrupted at any time, and continued later?  Yes / No  
4a. (if yes) In which section(s) did this happen?  List section numbers. Select all that apply.

4. Time end interview  /  HH:MM

5. What was this household's ID?

6. In what language was the survey administered? *Select all that apply.*

Kiswahili

Luo

English

Other: \_\_\_\_\_

7. How was the respondent's skill in speaking and understanding the survey language?

Displayed no problems speaking or understanding language

Displayed a little difficulty speaking or understanding language

Displayed moderate difficulty speaking or understanding language

Displayed serious problems speaking or understanding language

8. Are you very confident, somewhat confident or not very confident in the overall quality and truthfulness of this respondent's responses?

Very confident

Somewhat confident

Not confident

9. If SOMEWHAT or NOT CONFIDENT: Why?

\_\_\_\_\_

10. Please note any other comments on the survey at this time:

\_\_\_\_\_



c. Are you 18 years or older?  Yes / No

**If Yes, SKIP to INFORMED CONSENT. If No, CONTINUE.**

d. Is there anyone else living in the household that is older than 18 years old and is available for a phone interview now?  Yes / No

**If No, SKIP to CLOSING STATEMENT. If Yes, Read:** May I speak to that person now? If that person is not available, ask for another time that would be more suitable and note it in the tracking sheet. Alternatively, ask for a different phone number where that person can be reached.

e. **Note:** Alternative phone number *Please note this down on your Tracking Sheet.*

f. **Note:** What date/time are you willing to schedule the interview for? *Please note this down on your Tracking Sheet.*

**End interview here. DO NOT submit form.**

5f. Date of interview: (DD/MM/YYYY)

/    /

5g. Time start interview:

(24 hr clock)

:

**[Read Informed consent and data protection]**

6. Do you have any questions now?  Yes / No

**Read:** If you have any questions later, you can always call [OFFICE NUMBER].

7. Do you agree to participate in the survey? [VERBAL CONSENT]  Yes / No

**If No, CONTINUE to question 8. If Yes, SKIP to Section 2**

8. What is the main reason for not participating in the survey?

I am busy

→ **SKIP to question 10**

Refusal

→ **SKIP to question 9**

Unable to survey - parent or contact refusal

→ **SKIP to CLOSING STATEMENT**

Unable to survey - spouse refusal

→ **SKIP to CLOSING STATEMENT**

Unable to survey - in prison

→ **SKIP to CLOSING STATEMENT**

Unable to survey - mental illness / disability

→ **SKIP to CLOSING STATEMENT**

Unable to survey - other: \_\_\_\_\_

9. Record your impressions of why the FR refuses to participate during this survey round. If you feel comfortable doing so, you may ask the FR why: Why don't you want to participate in this survey round? Choose up to 3 reasons.

|\_|/|\_|/|\_| Other: \_\_\_\_\_

- 1 = Survey is too long
- 2 = FR has caregiving duties
- 3 = FR has to work
- 4 = FR does not want to disclose personal information
- 5 = FR is suspicious of REMIT/KNBS/WB
- 6 = FR hasn't received assistance from REMIT/KNBS/WB and doesn't want to participate
- 7 = FR just doesn't want to / no reason given
- 10 = Other (specify)

**SKIP to CLOSING STATEMENT.**

10. a. Are you willing to schedule the interview for a later date or time? |\_| Yes / No

b. **(If yes) Rescheduling instructions:** Please ask the FR when they are next available. If you cannot personally call back at this time, make a tentative appointment with the FR. Then, let the FR know that you will contact them to confirm when you will call back. Communicate the time with your TL to confirm if another person can call back. Record this information and the current time on the tracking sheet now. End the interview. **DO NOT submit this form.** Only submit a form if you either reached a household, or exhausted all attempts.

**CLOSING STATEMENT. Read:** Thank you very much for your time. If you change your mind and would like to participate in the interview, you may call me back any time. Here is my phone number [FO Phone Number]. End interview here.

**Section 2: Household Background**

**Part A: FR Information**

1. What is your full name, as it would appear on your national ID?

|\_|\_|\_|\_| / |\_|\_|\_|\_| / |\_|\_|\_|\_|  
First name Middle name Last name

1a. What is your common name? *This is the name you are commonly referred to by household members / friends.* \_\_\_\_\_

2. What is your age in completed years? |\_|\_|\_|\_|

3. Is the FR a man or a woman? **Do not read. Confirm if unsure.**  
|\_|\_| Male / female

4. What is the highest level of education you have completed? *Do not read.*

- No Formal Education
- Pre-primary
- Primary
- Post-primary, vocational
- Secondary
- College, middle-level
- University undergraduate
- University postgraduate
- Madrassa/ Duksi
- Other, specify

5. Do you still live in [BASELINE RESIDENCE]/[GE CENSUS VILLAGE]?  Yes / No  
***If no, continue, otherwise, skip to question***

Where do you currently reside?

- a. County: *Use county codes*
- b. Subcounty: *Use subcounty codes*
- c. Sublocation: *Use sublocation codes*
- d. Village *Use village codes*

6. [question removed]

**IF NOW LIVING OUTSIDE UGUNJA SUBCOUNTY → TERMINATE THE SURVEY HERE, SKIP TO CONCLUSION.**

7. What is your marital status? *Do not read.*

- Married monogamous, living with spouse
- Married monogamous, not living with spouse
- Married polygamous, living with spouse
- Married polygamous, not living with spouse
- Not married, but living together
- Separated
- Divorced
- Widow or widower
- Never married

8. In case we cannot reach you on this phone number in the future, is there another phone number where we can reach you?  Yes / No

9. How many other numbers would you like to provide, so that we can reach out to you in the future? *Limit to 5 phone numbers.*

**Loop through phone numbers {**

a. Phone #:

b. Who's phone is this?

- Mine
- Someone in my household
- My friend's / relative
- My village chief's
- Don't know
- Refused

c. What is this person's name? \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

}

### **Part B: Household Information**

**Read:** Now we'd like to talk about your household, defined as a person, or group of people that are taken care of by the same person, eat from the same pot" and have stayed together in the past 6 months and will stay for the next 6 month.

10. What is your relationship to the head of household? *Do not read.*

- Self
- Current spouse / partner
- Former spouse / partner
- Son/ Daughter
- Grandchild
- Sister/ Brother
- Father/ Mother
- Nephew/ Niece
- In-law
- Grandparent
- Other relative, specify: \_\_\_\_\_
- Non-relative

**IF NOT surveyed at baseline, CONTINUE. Otherwise, SKIP TO QUESTION 14.**

11. Currently, how many people in total (INCLUDING yourself) are in your household, "eat from the same pot" and spend 4 nights or more in an average week sleeping in your home? ***If the FR is live-in house help or a live-in guard and has a spouse or adult dependent(s) staying with them at the employer's house, only include these spouse/dependent(s) on the household roster (do not count their employer or the employer's family as part of the FR's household).***

- Adults (>= 18)
- School aged children (5 - 17)
- Young children (0 - 4)

12. Please list all current ADULT (>=18) members of the household (OTHER THAN the FR):

- a. Name  Age:  Gender:  Lived in [village] on 1 Jan 2021:
- b. Name  Age:  Gender:  Lived in [village] on 1 Jan 2021:
- c. Name  Age:  Gender:  Lived in [village] on 1 Jan 2021:
- d. ...

**13. LOOP through members that lived elsewhere on 1 Jan 2021 (if any) {**

a. Why did [Name] join this household? **Don't read, just ask.**  Use g5 codes

b. When did [Name] join this household?

In the past 7 days

In the 7 days before that (between 14 to 7 days ago)

June 2020

May 2020

April 2020

March 2020

February 2020

January 2020

c. Where did [Name] live on 1 January 2021?

Other village in Siaya County

Eldoret

Kisumu

Mombasa

Nairobi

Nakuru

Kampala

Other town/city: \_\_\_\_\_

Other rural village (NOT in Siaya), which county: \_\_\_\_\_

}

**Go to question 20**

14. **Read:** The last time we surveyed this household on [baseline date] , we recorded [NUMBER OF ADULT MEMBERS] adult members in this household.

**(If respondent moved within UGUNJA since baseline)** Before, you mentioned that you moved from [baseline village] to [current village] since [baseline date]. Did you move together with the majority / all of your household from [baseline date]?

Yes, we moved together

→ if yes, go to 14a.

No, I moved out of the household I lived in at [baseline]

→ go to question 23.

a. Why did the household move? **Don't read, just ask.**  Use g5 codes (see above)

**Read:** I would now like to verify each of these members again.

**LOOP through each ADULT household member from baseline {**

15. Is [NAME] still an ADULT member of this household?  
 Yes, still lives here  
 No, no longer member of this household  
 No, the respondent moved out, this person stayed back in the baseline household.  
 Never lived here / wrong information  
 Yes, a member but NOT an adult (< 18 years of age)

16. **(if no longer member)** Why is [NAME] no longer a member of this household?

- Moved away  
 Deceased

a. **(if deceased)** I am sorry for the loss. I understand this may be painful to talk about, but what was the cause of death? **Don't read, just ask.** \_\_\_\_\_ Use d1 codes.

b. **(if no longer member)** When did [NAME] move away / pass away?

- In the past 7 days  
 In the 7 days before that (between 14 to 7 days ago)  
 March 2021  
 February 2021  
 January 2021  
 December 2020  
 November 2020  
 October 2020  
 September 2020  
 August 2020  
 July 2020  
 June 2020  
 May 2020  
 April 2020

c. **(if moved away)** Why did this person move away? **Don't read, just ask.** \_\_\_\_\_ Use g5 codes.

d. **(if moved away)** Where did [NAME] move to?

- Other village in Siaya County  
 Eldoret  
 Kisumu  
 Mombasa  
 Nairobi  
 Nakuru  
 Kampala  
 Other town/city: \_\_\_\_\_  
 Other rural village (NOT in Siaya), which county: \_\_\_\_\_

}

17. Are there any other ADULT (>18) members in your household? If so, how many?  Enter 0 if no other adult members than those already mentioned.

**18. LOOP through other ADULT members not already listed {**

a. Name: \_\_\_\_\_

b. Age: \_\_\_\_\_

c. Gender: \_\_\_\_\_

d. When did [NAME] become a member of this household?  
 In the past 7 days  
 In the 7 days before that (between 14 to 7 days ago)  
 March 2021  
 February 2021  
 January 2021  
 Before 2021  
 Is not new / should've been captured before

e. **(if new)** Why did [NAME] join the HH? **Do not read choices. Simply record FR's response.**  
 Use g5 codes

f. **(if new)** Where did [Name] live in [baseline date]?  
 Other village in Siaya County  
 Eldoret  
 Kisumu  
 Mombasa  
 Nairobi  
 Nakuru  
 Kampala  
 Other town/city: \_\_\_\_\_  
 Other rural village (NOT in Siaya), which county: \_\_\_\_\_

}

19. Who in the household are you speaking to?  
 HH Member 1  
 HH Member 2  
 HH Member 3  
 HH Member 4  
 HH Member 5  
 HH Member 6  
 Other adult HH member

20. **(If q10 not "SELF")** Who is the household head? *Select one.*

[HH Member 1]

[HH Member 2]

[HH Member 3]

....

- a. **(If q10 not "SELF")** What is the household head's full name? *This is the name, as it would appear on a government ID.*

/  /   
First name                      Middle name                      Last name

**IF NOT surveyed at baseline, CONTINUE. Otherwise, SKIP to SECTION 2c.**

21. On 1 January 2021, were there any other ADULT ( $\geq 18$ ) household members that are no longer part of the household?  Yes / No

15a. **(if yes)** Please list all ADULT ( $\geq 18$ ) members of the household on 1 January 2021, that are no longer part of the household.

- i. Name  Age:  Gender:   
ii. Name  Age:  Gender:   
iii. Name  Age:  Gender:   
iv. ...

22. **(if yes) LOOP through members that left {**

- a. Why is [Name] no longer a member of this household?

Moved away  
 Deceased  
 Don't know  
 Refused

- b. **(if moved away)** Why did this person move away?  *Use g5 codes (see above)*

- c. **(if deceased)** I am sorry for the loss. I understand this may be painful to talk about, but what was the cause of death?  *Use d1 codes (below)*

Cancer  
 Heart attack/stroke  
 COVID-19 confirmed  
 Flu-like symptoms (fever, cough, pneumonia, etc.)  
 Other health/medical condition, please specify: \_\_\_\_\_  
 Road accident  
 Workplace accident  
 Home accident  
 Committed suicide  
 Slain  
 Other, please specify: \_\_\_\_\_

- d. When did [Name] move away / pass away? stop being a member of this household?  
 In the past 7 days

- In the 7 days before that (between 14 to 7 days ago)
- September 2020
- August 2020
- July 2020
- June 2020
- May 2020
- April 2020
- March 2020
- February 2020
- January 2020

e. **(if moved away)** Where did [Name] move to?

- Other village in Siaya County
- Eldoret
- Kisumu
- Mombasa
- Nairobi
- Nakuru
- Kampala
- Other town/city: \_\_\_\_\_
- Other rural village (NOT in Siaya), which county: \_\_\_\_\_

}

23. What is the predominant floor material of the [MAIN] dwelling unit? **Do not read. Select all that apply. Use materials codes (below).**

- Earth/Sand
- Dung
- Wood Planks/Shingles
- Palm/Bamboo
- Parquet Or Polished Wood
- Vinyl Or Asphalt Strips
- Ceramic Tiles
- Cement
- Carpet
- Other, please specify: \_\_\_\_\_
- Don't know
- Refused

24. What is the predominant wall material of the [MAIN] dwelling unit? **Do not read. Select all that apply. Use materials codes.**

- No walls
- Cane/Palm/Trunks
- Grass/Reeds
- Mud/Cow Dung

- Bamboo with mud
- Stone with mud
- Uncovered adobe
- Plywood
- Cardboard
- Reused wood
- Corrugated iron sheets
- Cement
- Stone with lime/cement
- Bricks
- Cement blocks
- Covered adobe
- Wood planks/shingles
- Other, please specify: \_\_\_\_\_
- Don't know
- Refused

25. a. Is your home physically connected to the electricity grid?  Yes / No  
**If NO, skip to question 25.**

- b. Have you used electricity from the grid in your home in the past 7 days (for example, a lightbulb, or a cell phone charger)? **Do not read, simply code the FR's response**
- Yes
  - No, it was disconnected because I did not pay Kenya Power
  - No, there is a power outage (due to e.g. heavy rain, a fallen tree, a blown fuse, the transformer blew up)
  - No, for another reason (specify): \_\_\_\_\_

26. Did anyone in your household own any of the following before March 2020? *Select all that apply.*

- None
- Radio
- Television
- Mattress
- Charcoal Jiko
- Refrigerator
- Generator
- Sewing machine
- Mattress
- Bicycle
- Motorcycle
- Don't know
- Refused

**Section 2c: Education**

**Read:** Above, you told us that there [number of children] children between 5 and 17 in your household. I would now like to ask you some questions about one of your children.

1. Of these [number of children] children...
  - a. how many are attending school in person?
  - b. how many are attending school remotely?
  - c. How many are attending daycare / other childcare in person?
2. Of these [number of children] children, how many have their own face covering or mask?
3. [question removed]
4. [question removed]
5. **(if yes)** Do they generally wear a mask when they leave the household?  
 Yes, all the time  
 Yes, sometimes  
 No

**CTO: Select a random number (among the numbers of children) → [randomchild = 1<sup>st</sup> / 2<sup>nd</sup> / 3<sup>rd</sup>]**

**Read:** I would now ask some question about your [randomchild] oldest child:

6. Do you consent to answering a few basic questions about [randomchild]'s schooling?  
 Yes / No. **If no, SKIP to next section.**
7. What is [randomchild]'s
  - a. Name? \_\_\_\_\_
  - b. Gender?  male / female
  - c. Age? \_\_\_\_\_
8. **(if not surveyed at baseline)** In February 2020, was [Name] enrolled in school, and at what level?  
 Pre-school  
 Primary school  
 Secondary school  
 Tertiary education  
 Other (please specify)  
 Not enrolled in any school
9. **(if not surveyed at baseline)** Was [Name] going to public school, private school or both public and private school? *Do not read.*  
 Public

- Private
- Both
- Don't know
- Refused

10. **(if not surveyed at baseline & if not enrolled)** Why was [Name] not attending school or academic institutions in February 2020? *Do not read. Select all that apply.*

- No money -uniforms, transport, books, fees etc.
- Children needed to work/ Work in household
- School too far from home/ No school close by
- Fear of coronavirus infection
- Illness or disability
- Poor quality of schools
- School conflicts with beliefs
- Marriage
- Pregnancy
- Too old / young for school
- Other, specify: \_\_\_\_\_

11. Is [Name] attending school now?

- Yes, attending school now
- No

12. **(if no)** Why not? *Check all that apply*

- Fear of contracting COVID19
- Unaware that schools are reopening
- No money-uniforms, transport, books, fees etc
- Children need to work/ work in household
- School too far from home/No school close b
- Illness or disability
- Poor quality of schools
- School conflicts with beliefs
- Marriage
- Pregnancy
- Working for pay
- Helping in a family business
- Providing childcare or elderly care
- Domestic work
- Won't pass exams anyway
- Other (please specify)

13. **(if yes)**

- a. Of the last 5 days school was in session, how many days did [NAME] attend?  
 1-5
  - b. On the last day [NAME] attended school, did [NAME] wear a mask?  
 Yes, all the time  
 Yes, some of the time  
 No
  - c. Out of 10 other students at [NAME]'s school, how many do you think usually wear masks while at school?  1 - 10
  - d. Does this school require [NAME] to wear a mask?  Yes / No
  - e. **(if yes)** What are the sanctions / consequences for not wearing a mask?  
 None  
 Reprimanded / extra school work / detention  
 Get reprimanded, get given a mask  
 Get sent home to get a mask  
 Other: \_\_\_\_\_
  - f. In the past 30 days, has [NAME] ever been sent home for not having or wearing a mask?  Yes / No / DK
  - g. Which other covid-related adjustments does [NAME]'s school currently have? *Select all that apply.*  
 Remote instruction - phone  
 Remote instruction - online  
 Increased hand-washing  
 Increased distance / reduced classroom capacity  
 Provision of masks  
 Routine fumigation of classrooms
  - h. [question removed]
- }

**Section 3: Travel Patterns & Interactions**

- 1. In the past 14 days, which household members visited a market center/village/supermarket for purchasing goods? *Tick all that apply*  
 None  
 FR  
 HH member 2  
 HH member 3

- ...
- Any child HH members

2. a. **(if FR selected)** How many times have you personally visited a market center/village/supermarket for purchasing or selling goods or services? *Count each visit separately. Include trips to a shop WITHIN the same village / neighborhood.*

- In the past 7 days:
- In the 7 days before that (between 14 to 7 days ago):

b. **(if ANY selected)** Which villages / market center(s) did you, or other adult members of the household, visit in the past 14 days? *Options according to location of current residence.*

- |  |  |
|--|--|
| <input type="checkbox"/> This village                  | <input type="checkbox"/> Market center 1     |
| <input type="checkbox"/> Nearby village 1              | <input type="checkbox"/> Market center 2     |
| <input type="checkbox"/> Nearby village 2              | <input type="checkbox"/> Market center 3     |
| <input type="checkbox"/> Nearby village 3              | <input type="checkbox"/> Other market center |
| <input type="checkbox"/> Nearby village 4              | <input type="checkbox"/> None of the above   |
| <input type="checkbox"/> Nearby village 5              | <input type="checkbox"/> Do not know         |
| <input type="checkbox"/> Other village in Siaya County |  |
| <input type="checkbox"/> Village outside Siaya County  |  |

3. a. Has any member of your household attended religious services, or ceremonies such as weddings or funerals, in person? If so, when? *Select all that apply.*

- Yes, this week (in the past 7 days)
- Yes, last week (between 14 to 7 days ago)
- Yes, since January 2021
- No

b. **(if any selected)** Which denomination(s)? *Select all that apply.*  **Use g11 codes**

c. Where did you attend these services? *Select all that apply.*

- This village
- Nearby village 1
- Nearby village 2
- Nearby village 3
- Nearby village 4
- Nearby village 5
- Other village in Siaya County
- Village outside of Siaya County

4. a. In the past 14 days, which members of your household traveled to (and returned from) another town or city?

- None
- FR
- HH member 2

- HH member 3
- ...
- Any child HH member

b. (if any) Which city/town(s)? \_\_\_\_\_

5. In the past 14 days, did anyone from your household visit someone else's houses, or did anyone from outside the household visit your house for more than 15 minutes? *E.g. joint meals, working together, etc.*  Yes / No

b. Where did you visit these households / did these households visit you from? *Select all that apply.*

- This village
- Nearby village 1
- Nearby village 2
- Nearby village 3
- Nearby village 4
- Nearby village 5
- Other village in Siaya County
- Village outside of Siaya County

6. Taken together, how many people outside this household have you interacted with in-person? *By interact, we mean talk, touch, hug, etc. Do not count people you only crossed on the street and had no interaction with.*

Yesterday

In the past 7 days:

7. How many people have you talked with on the phone or exchanged text messages with?

Yesterday

In the past 7 days:

**Section 4: Employment**

**Section 4a: Farming**

1. In the past 14 days, have any household members performed any agricultural or pastoral activities? *Select all that apply.*

- Yes, agricultural activities
- Yes, pastoral activities (incl. Livestock, herding, fish ponds, fishing, poultry, etc.)
- No

**If No, SKIP to question 9.**

2. In the past 7 days, how many hours did each of the following household members perform those agricultural or pastoral activities? *Put 0 for those that did not work.*

- a. FR Hours:
- b. HH member 2 Hours:
- c. HH member 3 Hours:
- d. ...
- e. All children combined Hours:

3. In the past 14 days, how many workers from outside the household did your household employ for all agricultural and pastoral activities combined? *Include casual workers and volunteers.*

**If ONLY PASTORALIST, SKIP to question 9.**

4. What is the total size of the land you used for this activity in the last 12 months? *1 Hectare ≈ 2.5 Acres*  Acres

5. What is the most important crop for your household?

- Maize
- Sorghum
- Beans
- Cassava
- Millet
- Sugarcane
- Groundnuts
- Kale
- Sweet potato
- Banana / Plantain
- Coffee
- Tea
- Potatoes (Irish or White)
- Other: \_\_\_\_\_

6. In which phase of the crop cycle are you?

- Land preparation
- Planting
- Crop on the farm: Applying inputs, weeding
- Harvesting
- Selling
- None of the above (off-season)

7. [question removed]

8. [question removed]

**If ONLY AGRICULTURAL, SKIP to question 10.**

9. What is the current market value of all your livestock combined?  Ksh

10. **(if any ag activity)** In the past 14 days, what were the total earnings for your household for those agricultural and pastoralist activities combined?  Ksh

**Section 4b: Family business**

**Read:** Now we are going to ask you some questions about enterprises that you, or members of your household run, OTHER THAN FARMING.

11. Other than farming, how many non-agricultural self-employed enterprises are members of your household currently running?  *Enter 0 if none.*

***If > 0, loop through each enterprise. If none, go to question 23. {***

12.

a. Enterprise name: \_\_\_\_\_

b. What category is/was this enterprise? *Select one.*  
 *Use bizcat options*

c. Who is the primary owner / decisionmaker for this enterprise?

- FR
- HH member 2
- HH member 3
- ...
- Non-Household Male
- Non-Household Female

13. How many employees work in this enterprise? *Note: Count ALL the employees/workers; If FR is the enterprise owner and works in this enterprise, then the FR should be included in the count. Include temporary and part-time workers, and those that work for no pay.*

14. What were the total earnings / revenue (money in only - do not subtract any expenses) of this enterprise in the last 14 days?  Ksh

15. What was the total profit of this enterprise over the past 14 days? *Note: In Ksh. Here we mean the amount you received after paying for expenses for this business, including hired*

workers, money for household members who helped, purchase of goods for sale or for inputs, such as raw materials, fuel, and electricity, but before purchasing personal items for yourself or your household. If unsure, FR can estimate. ) \_\_\_\_\_| Ksh

16. Have you adjusted your business model due to the COVID-19 crisis? \_\_\_\_\_| Yes / No  
**If Yes, skip to 16b, if No, CONTINUE**

16a. (if No) Are you planning to adjust your business model? \_\_\_\_\_| Yes / No **If Yes, CONTINUE, if No, SKIP to question 17**

16b. What adjustments have you made or are you planning to make? *Do not read. Select all that apply.*

- Use of the phone for marketing, placing orders, customer service, etc.
- Use of internet, online social media, specialized apps, or digital platforms
- Switched to delivery service only
- Changed product/service offering
- Change location to avoid lockdowns
- Change product range to be considered 'essential'
- Change hours of operation
- Visit customers at their home
- Other: \_\_\_\_\_

17. Does this enterprise accept mobile money for payment? \_\_\_\_\_| Yes / No

a. (if yes) In the past 14 days, what share of your sales was done via mobile money? \_\_\_\_\_

18. [question removed]

19. Is it possible for you, and your employees to conduct their work from home? \_\_\_\_\_| Yes / No

a. (if yes) In the past 14 days, have you / your employees worked from home? *Working from home means that you / your employees conducted business at home.*

- Yes, all the time
- Yes, most of the time
- Yes, sometimes
- No, came to work as usual
- No, stayed at home and did not work
- Other, explain: \_\_\_\_\_

20. (if any employees) In the last 14 days, have you made any adjustments to reduce the risk of employees spreading or contracting covid-19? \_\_\_\_\_| Yes / No  
**If Yes, SKIP to 6b, if No, CONTINUE.**

a. Are you planning to make any adjustments to reduce the risk? \_\_\_\_\_| Yes / No



24. How many employees work in the business that [NAME] works in as their main job? *If DK, can estimate.* \_\_\_\_\_|

25. [question removed]

26. Does [NAME] currently receive any of the following benefits from their employer? **Read options.**

Medical Insurance

Social security coverage

Sick leave

Subsidized meals

Subsidized lodging

Other, specify: \_\_\_\_\_

None

27. Is [NAME] currently...

Working from home

Working partly from home, partly as usual

Going to work as the usual workplace outside the home

Not working

a. **(if going to work as usual)** Could [NAME] work from home in principle?  Yes / No

28. In the last 7 days, how many hours has [NAME] worked for wages? \_\_\_\_\_| *Enter 0 if none.*

29. **(if > 0)** When at work, does [NAME]...

a. ... wear a face mask at work?  all the time / some of the time / no

b. ... maintain at least two arms' length / 6ft of distance to other workers or customers?  
 all the time / some of the time / no

30. In the past 14 days, what was the total cash salary of [NAME]? *Include only salary paid for work performed in the last 14 days. Also include the salary they EXPECT to get from the work performed in the last 14 days, even if they have not yet been paid. If an employee was paid even though they did not work, include this as well. Do not include pay for work performed more than 14 days ago.*

\_\_\_\_\_| Ksh.

}

31. In the past 4 weeks, which household members were actively looking for paid work or tried to start any kind of business/income generating activity?

None

- FR
- HH member 2
- HH member 3
- ...

32. [question removed]

33. In the last 7 days, how many hours have you spent doing childcare for your household, even if it overlapped with other tasks?  hours (DK=-99, N/A=88)

**Section 5: Consumption & Food Security**

**Section 5.1: Consumption module**

1. **Read:** Think of all the food your household consumed in the last 7 days. How much, in total, did you consume from your own agricultural or pastoral production? *E.g. crops you grew, livestock you owned and slaughtered, animal products like eggs, etc.*  
 **Prompt for Ksh. If not in Ksh, ask how much that amount would have cost if they had bought it at the market over the last 7 days.**

2. In the last 7 days, did your household receive any gifts of food from other households for your consumption? *Include food you exchanged, shared meals, etc.*  
 Yes / No

2a. If yes, what was the total value of those gifts?  
 **Prompt for Ksh. If not in Ksh, ask how much that amount would have cost if they had bought it at the market over the last 7 days.**

3. **Read:** Now think of all the purchases your household made in the last 7 days.

CATEGORY	<p>In the past 7 days, how much did members of your household spend on [CATEGORY]?</p> <p><i>Prompt for shillings. If not in KSh, ask how much that amount would have cost if they had bought it at the market over the last 7 days.</i></p>
<p><b>Groceries</b> / <b>Food</b>          Include all meat, fish, eggs, dairy, oils, fats, vegetables, fruit, sugar products and drinks</p>	<p><input type="text"/> KSh</p>
	<p>In the past 2 weeks, how much did members of your</p>

	household spend on [CATEGORY]?  <i>Prompt for shillings. If not in KSh, ask how much that amount would have cost if they had bought it at the market over the last 2 weeks.</i>
<b>Household and personal items</b> soap, cleaning agents, toilet paper/tissues, air freshener, shoe polish, insecticide, matches, candles, toiletries, cosmetics	_____  KSh
<b>Assets / Durables.</b> <b>FO:</b> Read categories, and sum up 1 Vehicles (car, boat, bike, motorbike, handcarts, etc.) 2 Furniture (bed, chair, vases, mirror, etc.) 3 Kitchen and other equipment (cutlery, pots, pans, plates, etc.) 4 Electronic equipment, (lamps, mobile phone, television, etc.) 5 Tools 6 Livestock	_____  KSh
<b>Local Services</b> Maize grinding, haircuts, prepared meals eaten outside the home, bicycle repair, recreation, etc.	_____  KSh
<b>Communication</b> Airtime, internet, other phone expenses	_____  KSh
<b>Housing</b> Rent, mortgage, home maintenance and repairs	_____  KSh
<b>Energy and Utilities</b> Electricity, water, firewood, charcoal, kerosene	_____  KSh
<b>Transport</b> Petrol, tolls, transport such as taxi/bus/matatu/boda/piki/train/flight fare, hotel stays (NOT including medical reasons)	_____  KSh
<b>Medical expenses</b> consultation fees, medicines, hospital costs, lab test costs, ambulance costs, and related transport	_____  KSh

4. [question removed]

5. [question removed]

6. In the last 30 days, did you worry that your household would not have enough food? (1=Yes, 2=No) |\_\_|

	In the past 7 DAYS, how many days have ADULTS in your household...	In the past 7 DAYS, how many days have CHILDREN (<18) in your household...
7. ...gone to bed hungry?	a.  __	b.  __

8. ... skipped meals or cut the amount of meals?	a. <input type="checkbox"/>	b. <input type="checkbox"/>
9. ...gone entire days without food?	a. <input type="checkbox"/>	b. <input type="checkbox"/>

10. Did any of the meals your household ate yesterday include... (1=Yes, 2=No)

a. Meat or fish? *Omena (small fish) should be included. Do not include eggs*

b. Eggs?

### **Section 7: Transfers**

1. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods from another household? *Do not include transfers from the government or employers; also do not include loans or interest payments, or goods that the household purchased. If FR is in boarding school count gifts from parents as transfers.*

No

Yes

2a. **(if any yes)** What was the total value?  Ksh

2. In the past 14 days, did anyone in this household give or send money or goods to another household? (1=Yes, 2=No)

3a. **(if yes)** What was the total value?  Ksh

3. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods, or job from a government program? *Include all relevant government programs. Prompt and give a few examples.*

No

Yes

4a. **[if yes]** What was the total value?  Ksh

4. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods from a non-governmental organization or community group?

5a. **[if yes]** What was the total value?  Ksh

5. In the past 14 days, did anyone in this household receive a gift / assistance of money or goods from an individual politician or government official?

6a. **[if yes]** What was the total value?  Ksh

## **Section 8: Subjective Welfare**

**Read:** I will read out a list of some of the ways you may feel or behave. Please indicate how many days you have felt this way during the past 7 days.

FO: Use the following scale while coding:

- 0 = Not at all or less than 1 day
- 1 = 1-2 days
- 2 = 3-4 days
- 3 = 5-7 days

Don't read: -88 = Refuse to answer

In the past 7 days, how many days.....

1. ...have you felt nervous, anxious, or on edge?
2. ...have you felt depressed?
3. ...have you felt lonely?
4. ...have you felt hopeful about the future?
5. ...have you had physical reactions, such as sweating, trouble breathing, nausea, or a pounding heart, when thinking about your experience (e.g., social distancing, loss of income/work, concerns about infection) with the coronavirus/COVID-19 pandemic?

**FO:** Use the following scale when coding:

1. Much better off than now
2. Somewhat better off than now
3. Same
4. Somewhat worse off than now
5. Much worse off than now
6. [question removed]
7. Compared to your household's financial well-being in February 2020, currently is your household [...]?
8. [question removed]
9. [question removed]
10. Relative to your current health, one year from now do you expect to be [...]?
11. **(if respondent < 50)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 50 years?
12. **(if respondent < 60)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 60 years?
13. **(if respondent < 70)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 70 years?

14. **(if respondent < 80)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 80 years?

15. **(if respondent < 90)** On a scale of 0 to 10, with 0 being no chance at all and 10 being extremely certain, what do you think is your chance of reaching the age of 90 years?

### **Section 9: Health**

**Read:** Now if you will permit me, I need to ask some more questions about your health. If we should come to any question that you do not want to answer, just let me know and we will go on to the next question. Are you in a private area where you can answer these questions?

1. Now I'm going to ask you some questions on your health that in some way may touch your private life. You may have experienced some of these illnesses or not. Please let me know if **you** have experienced any of these illnesses or symptoms in the past 14 days.

(A) Fever	<input type="text"/>	(G) Difficulty breathing / Chest tightness	<input type="text"/>
(B) Persistent cough	<input type="text"/>	(H) Runny nose	<input type="text"/>
(C) Always feeling tired	<input type="text"/>	(I) Sore throat	<input type="text"/>
(D) Muscle pain (myalgia)	<input type="text"/>	(J) Pneumonia	<input type="text"/>
(E) Headache	<input type="text"/>	(K) Loss of sense of smell / not being able to taste food	<input type="text"/>
(F) Diarrhea / Nausea / vomiting	<input type="text"/>	(L) None of the above	<input type="text"/>

**If YES to any, continue. If NO, skip to question 2.**

1a. How many days ago did these symptoms first appear?  Days

1b. Have these symptoms resolved?  Yes / No

2. In the past 14 days, which OTHER household members had any of the above symptoms?  
*Exclude chronic conditions.*

None

HH member 2

HH member 3

...

Any child household member

2a. **(if any)** Have these symptoms resolved?  Yes / No

3. In the past 30 days, have you or any member of your household needed medical treatment or needed to make routine visits to a health facility? *Include check-ups, chronic illnesses, emergency visits, etc.?*  Yes / No

**If No, SKIP to question 13. If YES, continue.**

4. What was the reason for needing this treatment? *Select all that apply. Use major health problem codes (below)*
- |  |                                 |
|--|---------------------------------|
| <input type="checkbox"/> Pregnancy - Prenatal checkups                                     | → <b>CONTINUE to question 5</b> |
| <input type="checkbox"/> Giving birth  | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> Routine Check-Up: General Health                                  | → <b>CONTINUE to question 5</b> |
| <input type="checkbox"/> Routine Check-Up: Cancer  | → <b>CONTINUE to question 5</b> |
| <input type="checkbox"/> Routine Check-Up: Chronic heart disease                           | → <b>CONTINUE to question 5</b> |
| <input type="checkbox"/> Routine Check-Up: Chronic lung disease                            | → <b>CONTINUE to question 5</b> |
| <input type="checkbox"/> Malaria   | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> Testing for Covid-19 / coronavirus                                | → <b>SKIP to question 9</b>     |
| <input type="checkbox"/> Flu-Like Symptoms (fever, cough, pneumonia, etc.)                 | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> Gastrointestinal Illness (Stomach Pain, Vomiting, Diarrhea, etc.) | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> HIV/AIDS related  | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> Serious wound or injury   | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> A major accident  | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> Minor Pains (Back, Muscle, Knee, etc.)                            | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> For child's check-up (routine, vaccination, etc.)                 | → <b>SKIP to question 7</b>     |
| <input type="checkbox"/> Other, please specify: _____                                      | → <b>SKIP to question 7</b>     |
5. **(if prenatal, or routine checkup)** Are you and/or this household member able to go for health check-ups as frequently as required? *Do not read.*
- As frequently as required
- Not as frequently but still able to go
- Not able to go at all
6. **(if not as frequently/not at all)** What is the reason for not being able to go as frequently as required or not able to go at all? *Do not read. Select all that apply.*
- Fear of getting infected due to Coronavirus
- Long waiting lines
- Consulting doctor not available or busy due to high demand
- Access to hospital denied
- Other reasons, please specify: \_\_\_\_\_
- Refused
7. **(if other health problem)** Were you and/or the member of your household able to access the medical treatment?  Yes / No
- If No , CONTINUE. If Yes, SKIP to question 9.**
8. **(if no)** What was the reason you or the member of your household were not able to access the medical treatment? *Do not read. Select all that apply.*
- Lack of money
- No medical personnel available
- Health facility had limited supplies
- Turned away because facility was full

- Far away from the healthcare provider
- Had other responsibilities (e.g. employment or housework)
- Didn't feel sick enough
- Other
- Refused

9. What kind of facility did you and/or the household member visit for these treatments? *Select all that apply.*

- Hospital
- Health center
- Private clinic
- Home (family)
- Home (traditional healer)
- Traditional healer (outside home)
- Drug shop
- Pharmacy
- Ordinary shop
- Other (specify the treatment location)

10. [question removed]

11. In the last 30 days, what were the number of hours you or members of your household lost from usual employment or household activities because of this illness/injury? *FO: Include any time lost from work, not just time spent seeking/receiving care. If multiple treatments were needed in past 30 days, or multiple members of your household were treated, add all together.*

12. Did any household member get tested for COVID-19? Which members of your household got tested for COVID-19? *Select all that apply.*

- None
- FR
- HH member 2
- HH member 3
- ...
- Any child household member

**(if none)** a. Did anyone try to get tested but was unable to?  Yes / No

**(if any)** **Loop through selected members {**

b. What was the outcome of the test for this person?  Positive / Negative / DK

c. What kind of test?

- Temperature screening
- sample taken from deep inside nose or throat

- Blood test for any past infection
- Other: \_\_\_\_\_

}

13. In the last 30 days, has your household been unable to buy medicine?

- Yes / No / Not tried / Refused

14. In the past 12 months, which household members have been hospitalized, that is, had to stay in a health facility overnight? *Select all that apply.*

- None
- FR
- HH member 2
- HH member 3
- ...
- Any child household member

***(if any household member) Loop through selected members {***

a. How many nights did [Name] stay in hospital?

b. What was the reason? *Select all that apply. Use major health problem codes (below)*

- Pregnancy
- Giving birth
- Cancer
- Chronic heart disease
- Chronic lung disease
- Malaria
- Covid-19 / coronavirus
- Flu-Like Symptoms (fever, cough, pneumonia, etc.)
- Gastrointestinal Illness (Stomach Pain, Vomiting, Diarrhea, etc.)
- HIV/AIDS related
- Serious wound or injury
- A major accident
- Pains (Back, Muscle, Knee, etc.)
- Other, please specify: \_\_\_\_\_

}

15.

**Section 10: COVID-19 Knowledge**

1. [question removed]

2. Do you know anyone that has, or has had, COVID-19/coronavirus? *By knowing someone, we mean someone you could identify by name, and that you have interacted with.* (1=Yes, 0=No, -98=Refuse to answer)  **If YES, continue. If NO skip to question 2c.**

a. Who are these persons? Select all that apply.

- Self
- Other household members
- Family members living in [VILLAGE / TOWN] (parents, siblings, relatives)
- Family members living in [COUNTY], but outside [VILLAGE / TOWN]
- Family members living outside [COUNTY]
- Someone from workplace
- Friends living in this [VILLAGE / TOWN]
- Friends living in [COUNTY], but outside [VILLAGE / TOWN]
- Friends living outside [COUNTY]
- Neighbors
- Other: \_\_\_\_\_
- Refuse to answer

b. [question removed]

c. Do you think people who have tested positive for Coronavirus will be perceived negatively by the community?  Yes / No / Don't know

3. What are the symptoms of COVID-19/coronavirus? *Select all that apply, list multiple symptoms under other if needed. (DO NOT READ, simply code the FR's response)*

- |                                      |                            |
|--------------------------------------|----------------------------|
| 1=Cough                              | 11=Diarrhea                |
| 2=Fever                              | 12=Skin rashes             |
| 3=Vomiting                           | 13=Unexplained bruises     |
| 4=Pneumonia                          | 14=Unexplained bleeding    |
| 5=Loss of sense of smell             | 15=Coughing blood          |
| 6=Pox / Boils / Rash                 | 16=Nasal congestion        |
| 7=Nausea                             | 17=Headache                |
| 8=Feeling unwell                     | -77= Other (specify) _____ |
| 9=Chronic fatigue/Feeling very tired | -99=DK                     |
| 10=Sore throat                       |                            |

/  /

5. [question removed]

6. Has your behavior changed in any way since learning about covid-19? If so how? (**DO NOT READ, simply code the FR's response**)

- None
- Stay at home more

- Wash hands more
- Use hand sanitizer more frequently
- Avoid handshakes / greetings
- Cover mouth more when cough or sneeze
- Wear face mask
- Avoided groups and gatherings (church, family, etc.)
- Travel outside of home area less
- Returning home earlier at night
- Go to work less
- Stock up on food and other essentials
- Drink warm/hot water
- Eat fruits with vitamin C to boost immune system
- Drink tea with lemon
- Eat Lemon / Garlic / Avocado / Mango / any other type of food
- Eat Alkaline foods
- Drink bicarbonate/baking soda
- Visited a doctor
- Visited a traditional healer
- Cancelled visit to a doctor
- Prayed
- Other: \_\_\_\_\_

a. Take a moment to think about other households in your community. Out of 10 such households, how many do you think practice covid-19 measures ... *Answers need to sum to 10*

- More careful than you
- Equally careful as you
- Less careful than you

**Read:** I would like to remind you that this information is only used for research purposes, and that we will not share this information with anyone. Any responses that you give us will be confidential, that is, the researchers will not let anyone else know how you answered. You may skip any question that you do not wish to answer.

7. In the past 7 days, did you wear a face mask or face covering when going to a public place?  
 1=Yes / 2=No-didn't wear a mask in public places / 3=No-didn't go to public place / -98= Refuse to answer.

**If No, CONTINUE. If Yes, SKIP to question 12.**

8. Do you own a mask?  Yes / No

a. **(if yes)** What kind of face mask do you own? *If more than one, describe the one used most recently*

- TIBANISISI Mask

- Mask - Reusable
- Mask - One-way
- Simple face covering - Shirt / Cloth / etc.

b. **(if yes)** What material is your mask made from?

- Cotton
- Silk
- Paper
- Surgical mask -- non-woven fabric
- N95 - approved medical material
- Other: \_\_\_\_\_

c. **(if yes)** Where did you obtain the mask that you have used most in the last 7 days?

- Self-made
- Purchased
- Gifted by an NGO
- Gifted by a religious or social organization
- Gifted by individual politician
- Gifted by a political party / committee
- Gifted by the local government (village, parish or district)
- Gifted by the county government
- Gifted by the national government
- Gifted by a friend / someone in my community
- Other: \_\_\_\_\_

d. **(if purchased)** How much did your household spend on masks since February 2020?

- Ksh

9. **(if not own)** Why do you not own a face mask?

- Too expensive
- I want to wear one, but could not get one
- I don't want to wear one
- Other, please specify: \_\_\_\_\_

10. **(if own)** Do you normally wear a mask?  Yes / No

**If No, CONTINUE. If Yes, skip to 12.**

11. Why do you not wear a face mask in public? *Select all that apply*

- I forgot to bring it with me
- It does not protect against covid
- Covid-19 is not a serious illness
- Covid-19 does not exist
- It is uncomfortable
- It does not look good
- I don't like the government
- I want my freedom
- There are no consequences to not wearing a mask

a. **FO:** Please prompt carefully, and start an informal conversation about mask use. Try to

get this person's view about why they are not wearing a mask. Describe their main points here.

---

**SKIP to question 14**

12. **Read:** Think about the mask you wore most in the past 7 days:

a. What kind of face mask have you worn most in the past 7 days?

- TIBANISISI Mask
- Mask - Reusable
- Mask - One-way
- Simple face covering - Shirt / Cloth / etc.

b. What material was this mask made from?

- Cotton
- Silk
- Paper
- Surgical mask -- non-woven fabric
- N95 - approved medical material
- Other: \_\_\_\_\_

c. Last time you wore your mask, did this mask completely cover...

- i. ... your mouth?  Yes, all the time / Yes, sometimes / No
- ii. ... your nose?  Yes, all the time / Yes, sometimes / No

d. Where did you obtain the mask that you have used most in the last 7 days?

- Self-made
- Purchased
- Gifted by an NGO
- Gifted by a religious or social organization
- Gifted by individual politician
- Gifted by a political party / committee
- Gifted by the local government (village, parish or district)
- Gifted by the county government
- Gifted by the national government
- Gifted by a friend / someone in my community
- Other: \_\_\_\_\_

e. **(if purchased)** How much did your household spend on masks since February 2020?

Ksh

f. In the last 7 days, have you washed this face mask?  Yes / No

- i. **(if yes)** With soap?  Yes / No
- ii. **(if yes)** How many times?

13. Do you wear a mask regularly?  Yes / No

14. **(if yes)** When did you start wearing a mask regularly?

- In the last 7 days
- In the last 14 days

Before 2021

15. Did you wear a mask ... (1=Yes, all the time, 2=Yes, some of the time, 3 = No, 4 = DK)

- i. ... the last time you went to a market center 
  - At the market, did you spend your time indoors or outdoors?   
1 = Only outdoors, 2 = Mostly outdoors, some indoors, 3 = mostly indoors, some outdoors, 4 = only indoors
- ii. ... the last time you attended a religious gathering? 
  - Was this religious meeting indoors or outdoors?   
1 = Only outdoors, 2 = Mostly outdoors, some indoors, 3 = mostly indoors, some outdoors, 4 = only indoors
- iii. ... the last time you used public transport?
- iv. ... the last time you visited a store in the village?
- v. ... the last time you visited another household?  
*We mean, when you reached that household, indoors or while talking to member of this household*
- vi. ... at work, the last day you worked? 
  - Was this work indoors or outdoors?   
1 = Only outdoors, 2 = Mostly outdoors, some indoors, 3 = mostly indoors, some outdoors, 4 = only indoors

b. (if No to any) Why did you not wear a face mask in public? *Select all that apply*

- I forgot to bring it with me
- It does not protect against covid
- Covid is not a serious illness
- Covid does not exist
- It is uncomfortable
- It does not look good
- I don't like the government
- I want my freedom
  
- There are no consequences to not wearing a mask
- Other: \_\_\_\_\_

16. Out of 10 other households in your village, how many do you think wear a mask or face covering... *Prompt for 0 out of 10*

- i. ... when they go to a market center  0 - 10
- ii. ... when they attend a religious gathering?  0 - 10
- iii. ... when they use public transport?  0 - 10
- iv. ... when they visit a store in your village?  0 - 10
- v. ... when they visit another household in your village?  0 - 10
- vi. ... at work?  0 - 10

17. What are the main reasons OTHER people do not wear a face mask in public? *Select all that apply*

- They forget to bring it with them
- They think it does not protect against covid
- They think covid-19 is not a serious illness

- They think covid-19 does not exist
- Masks are uncomfortable
- Masks don't look good
- They don't like the government
- They want their freedom
- They are too young
- There are no consequences to not wearing a mask

49. In the last 7 days, did you talk to people in THIS village about covid-19?  Yes / No

a. **(if yes)** What topics did you talk about? *Do not read. Simply record their answer. Select all that apply.*

- General covid-19 related conversations
- Health consequences of covid-19 (symptoms, etc.)
- Importance of face masks
- Other prevention measures (hand washing, etc.)
- Economic consequences of covid-19
- Government response to covid-19
- Other: \_\_\_\_\_

50. Which households did you speak to about covid-19 in the village? *Pre-load from census. Select all that apply.*

- HH 1
- HH 2
- HH 3
- HH 4
- ...
- Other households in the village

51. In the past 7 days, did you talk to people IN OTHER VILLAGES about covid-19?  
 Yes / No

52. In the past 7 days, did you talk about covid-19 and face masks, or receive text message reminders / promotions about masks from any of the following people? *Select all that apply.*

- a. Role model 1: [Name]
- b. Role model 2: [Name]

1 = Yes, talked about covid-19, 2 = Yes, talked about masks, 3 = Yes, received text messages, 4 = No, 5 = DK

**Read:** Now we will ask you a few questions about coronavirus / covid-19:

53. How does COVID-19/coronavirus spread? *Do not read. Simply record the answer.*

- Physical touching / hugging
- Surfaces
- Droplets in the air

- Breath
- Sexual activities
- Witchcraft
- Other, specify: \_\_\_\_\_

54. Do you believe COVID-19/coronavirus is a disease that can lead to serious illness and possibly death?  Yes/No

a. Do you think COVID-19/coronavirus is more serious, less serious, or about the same as a seasonal flu?

- more serious
- about the same
- less serious

55. Using the following scale, please indicate how much you agree or disagree with the following statement: Disagree=1 / Neutral= 2 / Agree = 3

a. The use of masks in public reduces the risk of contracting coronavirus

**(if yes)** Who do face masks protect? *Select all that apply.*

Those wearing a mask

Others

**(if both)** Who do they protect more?  wearers / others / equally / DK

b. Washing hands or using hand sanitizer reduces the risk of contracting coronavirus

c. Keeping at least 2m / 2 arms length distance from others reduces the risk of contracting coronavirus

d. Face masks are uncomfortable

e. Face masks look unattractive

f. Mask wearing is an individual choice  
-- everyone can do what they think is right for them

g. I get annoyed when others around me do not wear masks

h. I speak out when others around me do not wear masks

i. Others judge me for not wearing a mask in public spaces

j. People that are not wearing masks are not good community members / citizens

k. People that do not wear face masks should pay a fine

i. **(if yes)** What would be an appropriate fine for someone not wearing a mask in a crowded market place?  KSh

l. Wearing a face mask is a *moral* (not only a legal) obligation

m. God will judge those that are not wearing masks

56. Which of the following statements do you believe is true about Siaya County *right now*?

People in Siaya County are at risk of getting COVID-19/coronavirus

There is little to no risk of getting COVID-19/coronavirus in Siaya County

57. Which of the following statements is true? True / False / DK

- a. Lemon and alcohol can be used as sanitizers against Coronavirus.
- b. Local herbs can be used to treat Coronavirus patients.
- c. Taking alcohol can make one immune to contracting Coronavirus.
- d. Africans are immune to Coronavirus.
- e. Coronavirus cannot survive in warm weather.
- f. People with a strong immune system don't have to worry about coronavirus

58. Which age groups do you believe are at risk of being *infected* with COVID? *Check all that apply.*

- Elderly
- Adults
- Young adults
- Children
- All age groups are at risk
- None
- Don't know

59. Which age groups do you believe are at risk of *being seriously ill or dying* from COVID? *Check all that apply*

- Elderly
- Adults
- Youth
- Children
- All age groups are at risk
- None
- Don't know

60. Do you believe men and women are equally at risk for being infected with COVID?

- Men more at risk
- women more at risk
- Men and women are equally at risk
- Don't know

61. To your knowledge, what measures can you adopt to reduce the risk of contracting coronavirus? ***Do not read. Give them enough time to answer, pause, maybe prompt. Then record their answer.***

- Stay at home more
- Wash hands more
- Use hand sanitizer more frequently
- Avoided handshakes / greetings
- Cover mouth more when cough or sneeze
- Wear face mask
- Avoided groups and gatherings (church, family, etc.)
- Travel outside of home area less

- Returning home earlier at night
- Go to work less
- Stock up on food and other essentials
- Drink warm/hot water
- Eat fruits with vitamin C to boost immune system
- Drink tea with lemon
- Eat Lemon / Garlic / Avocado / Mango / any other type of food
- Eat Alkaline foods
- Drink bicarbonate/baking soda
- Visited a doctor
- Visited a traditional healer
- Cancelled visit to a doctor
- Prayed
- Other: \_\_\_\_\_

62. What steps has the government or local authorities taken to curb the spread of the Coronavirus in your area? **Do not read.** Prompt FO to list all the actions they are aware of. *Select all that apply. It is important here to note down any other answers.*

- Distributed free masks
- Distributed other health goods
- Advised citizens to stay at home
- Advised citizens to wash hands / use sanitizer
- Advised citizens to avoid people / gathering events
- Advised citizens to maintain enough distance when talking face-to-face
- Advised citizens to use masks / gloves
- Provided sanitizer, mask, soap for free / at reduced price
- Restricted travel within country or area
- Restricted international travel
- Closure of schools and universities
- Curfew
- Lockdown
- Closure of markets
- Closure of non essential businesses
- Cancelled market fees
- Cancelled business registration fees
- Reduced the salaries of politicians / officials
- Don't know

63. a. If you are caught not wearing a mask by a government official / police officer, what do you think the likely consequences would be? *Select all that apply.*

- None
- Friendly encouragement / reminder
- Reprimand verbally / harrassment
- Collect a fine

(if yes) How much:  KSh

Physical enforcement / violence

Other, describe: \_\_\_\_\_

b. If you are not wearing a mask, how likely do you think you will get caught / reprimanded by a government official / police officer...

1 = Never, 2 = Rarely, 3 = Sometimes, 4 = Often, 5 = Every time

- i. ... when you go to a market center  1 - 5
- ii. ... when you attend a religious gathering?  1 - 5
- iii. ... when you use public transport?  1 - 5
- iv. ... when you visit a store in your village?  1 - 5
- v. ... when you visit another household in your village?  1 - 5

64. Are you feeling nervous or anxious due to the coronavirus outbreak?  Yes / No

a. (if yes) What is your major reason for worrying or being anxious? (**DO NOT READ, simply code the FR's response**)

- Loss of employment / business
- Fear of myself or family getting infected by coronavirus
- Fear of myself or family dying due to coronavirus
- Fear of me infecting others in the community
- Fear of being unable to feed or provide for family
- Fear of losing access to health facilities
- Effect on education system and school closures
- Economic Crisis/Paralyzed Movement
- Uncertainty of when lockdown will end / things will return to normal
- Other (specify): \_\_\_\_\_

65. If an approved vaccine to prevent coronavirus was available right now at no cost, would

you	agree	to	be	vaccinated?
<input type="checkbox"/>				Yes
<input type="checkbox"/>				No
<input type="checkbox"/>		Not		sure

a. (If No) What are the reasons you would not agree to be vaccinated?

- I don't think it will work
- I don't think it will be safe
- I am worried about the side effects
- I am not enough at risk of contracting Covid-19
- I am against vaccines in general
- It is against my religion
- Other (specify)

b. **(If not sure)** What are the reasons you are not sure whether you would agree to be vaccinated?

- I don't think it will work
- I don't think it will be safe
- I am worried about the side effects
- I am not enough at risk of contracting Covid-19
- I am against vaccines in general
- It is against my religion
- Other (specify)

### **Section 11: Household and Social Relations**

**Read:** Now, I would like to ask you about your social activities and your views on society.

1. Generally speaking, would you say that most people can be trusted or that you need to be very careful in dealing with people? *Select one.*

- Most people can be trusted
- Need to be careful
- Don't know
- Refuse to answer

2. [question removed]

3. Are you satisfied with the government's response to the coronavirus crisis?  Yes / No / Don't know \ Refuse to answer

4. **(if no)** Why are you not satisfied with the federal/state government's response?

- Limited Testing
- No financial assistance from the government
- Late response by government
- Shortage of medical materials
- Other (specify)

5. Using the following scale, please indicate how much you agree or disagree with the following statements: Disagree=1 / Neutral= 2 / Agree = 3

a. The Government is willing to provide health care to address the Coronavirus crisis:

b. The Government is able to provide health care to address the Coronavirus crisis:

c. [question removed]

d. You intend to follow the Government's guidelines to mitigate the spread of the coronavirus

- e. Other people are following the Government's guidelines to mitigate the spread of the coronavirus.

## **Section 12: Conclusion**

1. **Read:** Thank you for your time. As an appreciation, airtime of [XXX] will be transferred to this number after the call.
- a. Would you prefer for us to transfer the airtime to this number or a different one?  
 This number: [CURRENT LINE]  
 A different number (to specify)
- b. **(if different)** Please provide it now:

**Read:** We may call again in a few weeks and we may send you a few questions via text message.. We would appreciate it if you answer, and will thank you for your participation with another gift.

## **AFTER YOU END THE CONVERSATION**

2. Did the respondent terminate the survey early?  Yes / No
- 3a. **(if yes)** Why did the respondent terminate the survey early?  
 Temporary stop only - Wishes to continue survey at a later time.  
**Go to Temporary Stop Instructions**  
 Tired  
 Too busy, does not have time  
 Offended at question  
 Suspicious of FO/ survey intent / REMIT  
 Does not feel like continuing the survey  
 Call dropped, unable to reach respondent again  
 Other (specify)

**Temporary Stop Instructions:** You have indicated that the FR wishes to continue the survey in the future. Please ask the FR when they are next available, and then call your team lead (or other senior team member) to confirm this day and time. If you are unable to confirm this day and time, make a tentative appointment with the FR. Then, let the FR know that you will contact them to confirm when you will return. Record this information and the current time on the tracking sheet now.

3. Was this call dropped or interrupted at any time, and continued later?  Yes / No  
4a. **(if yes)** In which section(s) did this happen?  List section numbers. Select all that apply.

4. Time end interview |\_\_|\_\_| / |\_\_|\_\_| *HH:MM*
5. What was this household's ID? |\_\_|\_\_|\_\_|\_\_|\_\_|\_\_|
6. In what language was the survey administered? *Select all that apply.*
- Kiswahili
  - Luo
  - English
  - Other: \_\_\_\_\_
7. How was the respondent's skill in speaking and understanding the survey language?
- Displayed no problems speaking or understanding language
  - Displayed a little difficulty speaking or understanding language
  - Displayed moderate difficulty speaking or understanding language
  - Displayed serious problems speaking or understanding language
8. Are you very confident, somewhat confident or not very confident in the overall quality and truthfulness of this respondent's responses?
- Very confident
  - Somewhat confident
  - Not confident
9. If SOMEWHAT or NOT CONFIDENT: Why?
- \_\_\_\_\_
10. Please note any other comments on the survey at this time:
- \_\_\_\_\_

## Siaya Mask - Direct Observations

### Introduction

The purpose of this direct observation activity is to record the behavior of people in public places, specifically whether they are wearing masks and whether they are physically distanced from others. The activity involves you going to an assigned public place and recording observations using SurveyCTO Collect. Your presence in this public place is meant to be inconspicuous, so that you are able to record the 'real-world' behavior of the people you observe. Below you will find specific instructions about this assignment, as well as an outline of the form you will use on SurveyCTO Collect.

### Instructions

- You will be assigned a specific village or market center to complete in ONE day. For the village/market center you are assigned, you need to complete THREE 60-minute slots in that day, with ONE slot in each of the following time frames:
  - Morning: 8AM - 11AM
  - Early afternoon: 11AM-1PM
  - Late afternoon: 1PM - 4PM
- Within each 60-minute slot, you will record observations from at least THREE different spots. A spot is a specific location from where you will sit/stand and record observations. When choosing a spot, find a 'meaningful' spot, as in places where you expect people to be/people to gather. Examples of spots include sitting near a shop in the village, sitting near a water collection point, sitting near a primary school, etc.
- In order to observe from at least THREE different spots, you should change spots when either 20 minutes has passed or you have not seen anybody for 5 minutes.
  - If there is a sufficient pedestrian traffic, you might spend 10:00AM-10:20AM in Spot #1, 10:20AM-10:40AM in Spot #2, and 10:40AM-11:00AM in Spot #3. That completes your THREE spots for ONE 60-minute time slot.
  - However, if there is not much pedestrian traffic, you might spend 10:00AM-10:20AM in Spot #1, 10:20-10:25AM in Spot #2, 10:25AM-10:40AM in Spot #3, and 10:40AM-11:00AM minutes in Spot #4.
  - THREE spots is not a maximum, it is a minimum.

1 village per day \* 3 time slots per village \* 3 spots per time slot = minimum 9 different spots per day

- Once you have chosen a spot and entered the details of this spot in the tablet, record as many observations as you can. Try to record RANDOM groups/individuals -- DO NOT look for specific characteristics. As soon as you finish recording the details for one observation, lift your head up and whoever meets your eye first, that is your next observation.
- At each spot, stand at a safe distance, looking inconspicuous. Passer-byers should NOT be able to immediately recognize you as a researcher. If asked, you can say you are working with REMIT, conducting research in the area, but are 'taking a break'.
- We want to record people's REAL WORLD behavior in a situation where they do not feel like they are being observed. DO NOT interact with people/ask them questions. Simply observe what is happening from afar. If someone approaches you/recognizes you, record their behavior as an observation BEFORE they recognized you. Please do not record any information about private situations (e.g. bathing).
- You will submit ONE form per time slot per daily assignment. For example, if you are assigned Village A today, you should submit one form for 9AM-10AM, one form for 12PM-1PM, and one form for 3PM-4PM. That makes 3 forms total.

After reading these instructions, ensure that you understand the following structure:

- 1 village or market center per day (this is your 'assignment')
- 3 time slots per assignment (morning, early afternoon, late afternoon)
- Minimum 3 spots per time slot
- As many observations as possible per spot

Once you have understood this structure, read through the paper version of the survey below to understand what types of details we will be collecting for each observation.

Other important details on recording what the individual is doing:

- If the activity is commuting, note that we have different options for driver and passenger. You should select the correct one based on who you are observing. For example, we have an option for a boda driver without a passenger, an option for a boda driver with a passenger (observing the driver), and an option for the passenger (observing the passenger).
- If the person you are observing is a boda/piki driver waiting for a passenger (as in, not moving), the activity should be "waiting", not "commuting".

1. a. Please select your name: \_\_\_\_\_  
 b. FO REMIT ID: \_\_\_\_\_
  
2. What is your assignment today?  
 Village **CONTINUE**  
 Market center **SKIP to question 4.**
  
3. Village-Code: \_\_\_\_\_  
 Re-enter Village-Code: \_\_\_\_\_  
 Village Name: \_\_\_\_\_  
**SKIP to question 5.**
  
4. Market-Code: \_\_\_\_\_  
 Re-enter Market-Code: \_\_\_\_\_  
 Market Name: \_\_\_\_\_  
 Is it a weekly market day?  Yes / No
  
5. Observation date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (DD / MM / YYYY)  
 Observation 60-minute slot: \_\_\_\_\_ until \_\_\_\_\_

**Loop through each spot you observe from (at least 3 spots within a time slot) {**

6. Description of this spot:
  - Near shops in the market
  - Near a shop in the village
  - By the side of a road
  - Bus / matatu / piki station
  - Other: \_\_\_\_\_
  - a. **(if village)** Estimate the fraction or share of people that you are observing from this spot who you think are living in THIS village:  
 [village\_name]?  
 0 - 100%
  
7. GPS of this spot: \_\_\_\_\_ / \_\_\_\_\_
  
8. Approximately how many people can you currently see from where you are sitting/standing?

- 0 to 5
- 5 to 15
- More than 15

9. Details / comments? (for example, is it busy? What is the weather? Anything else noteworthy?)

---



---

**Loop as many times as observations {**

10. How many people are you observing?

- Individual (any age)
- Adult with children
- Group of people (at least 2 people)

**SKIP to question 14**

**SKIP to question 14 (collect information for the adult)**

**CONTINUE**

*By 'group', we mean any situation where multiple people (more than 2) are either a) directly interacting with each other, or b) located close to each other for a significant period of time (e.g. in a bus, standing in a queue, working together, on a boda, etc.)*

11. How many people are in the group? (Do not count infants and children <6 years) |\_\_\_\_|

12. (if in a village) Do you think these people are mostly from this village? |\_\_\_\_| Yes / No / Can't tell

- A. Do these people appear to be family members / from the same household?
- B. Are these people within 2m length from each other?
- C. Are these people directly interacting with each other (talking / hugging / touching / etc.)?
- D. (if yes) What kind of interaction? *Select all that apply.*

|\_\_\_\_| Yes / No / Unsure

|\_\_\_\_| Yes / No

|\_\_\_\_| Yes / No

- Talking
- Working together
- Touching
- Hugging
- Playing
- Sports / exercise
- Other: \_\_\_\_\_

13. (if group size > 3) Do you have time to capture all individuals in the group, or not? *Note: if the group is moving and will be out of sight quickly, indicate "No". Otherwise, if you have time to record the behavior of all those in the group, indicate yes.*

- Yes, I have time                      **SKIP to 14a**

No, I don't have time

**CONTINUE to question 13a**

13a. **FO Note:** Let SurveyCTO pick a random 3 individuals out of [GROUP SIZE] people. Note: Now focus first on person [x1], [x2] and [x3] person from the left or front (whichever is more applicable).

**Loop through [XX] individuals {**

**(if group)** Note: Focus on person [x1] from the left or front (whichever is more applicable).

14. a. Gender?  Male/Female

b. Age?  1 = <6, 2 = 6-12, 3 = 13-18, 4 = 19-25, 5 = 26-45, 6 = 46-60, 7 = 60+

15. **(if individual / adult with children)**

a. Is this person within 2m from another person (at any point while you were observing her/him)?

Yes / no

b. Is this person interacting with someone?  Yes / No

c. **(if yes)** What is the type of interaction? *Select all that apply.*

Talking

Working

Touching

Hugging

Playing

Sports / exercise

Other: \_\_\_\_\_.

d. **(if in a village)** Do you think this person lives in this village?  Yes / No / Can't tell

16. Is this person wearing a mask / face covering?

Wearing a mask properly (covering both mouth and nose fully)

Wearing mask intermittently -- putting in on and off (when on, fully covering mouth and nose)

Has a mask visible, but not properly wearing it (i.e. around neck, carrying it in their hand, etc.)

No mask visible

17. What kind of mask does this person have?

Reusable cotton/nylon/fabric mask with straps / elastic bands

Bandanna

One-way medical / surgical mask

**CONTINUE**

**CONTINUE**

**CONTINUE**

**SKIP to question 20**

- N-95 mask
- Non-mask face covering (shirt / etc. wrapped around mouth)
- TIBANSISI

18. What is this person doing?

- Eating / drinking indoors
- Eating / drinking outdoors
- Shopping / buying outdoors
- Shopping / buying indoors
- Vending / hawking outdoors
- Vending / hawking indoors
- Passing through / walking / cycling
- Working in the field/ farming/ tending to livestock / fishing (include tending to livestock/cattle, herding)
- Non-ag work outdoors (include all work that is not related to farming or tending to animals, including household chores: washing clothes or dishes, collecting water/firewood, sewing, fetching water, etc.)
- Non-ag work indoors
- Waiting / sitting around / standing around (include resting, eating, waiting for passengers, waiting for shop to open)
- Commuting on boda / piki -- driver alone, without passenger
- Commuting on boda / piki -- driver with passenger
- Commuting on boda / piki -- passenger
- Commuting in matatu -- driver
- Commuting in matatu -- passenger
- Driving private car/tractor/lorry (include here people commuting alone in cars)
- Talking / interacting with others - outdoors (include children playing)
- Talking / interacting with others - indoors
- Other: \_\_\_\_\_

}

19. Are you changing spots?

- Yes, because 20 minutes has passed **Start new loop for new spot (back to question 6)**
- Yes, because no one seen for 5 minutes **Start new loop for new spot (back to question 6)**
- No, 60-minute slot is complete **End form.**

20. **(if yes)** Did you observe anyone enforcing mask use at this spot?  Yes / No **if yes, CONTINUE. O/w go to next spot.**

a. What type of official / who?

Village Elder

Community Health Worker

Police Officer

Other: \_\_\_\_\_

b. What type of enforcement? *Select all that apply.*

Friendly encouragement / reminder

Reprimand verbally / harrassment

Collect a fine

Physical enforcement / violence

Other, describe: \_\_\_\_\_

}

## **Appendix B: Intervention Materials**

Distribution of face masks to the general population provides an opportunity to educate the public about COVID-19, reasons for wearing a mask, proper use of mask, and reinforce messages about maintaining physical distance and frequent hand washing even when wearing a mask. Every mask recipient will receive critical information about masks that adheres to the Ministry of Health guidance about masks. Random groups of recipients will also receive additional messages that reinforce specific information about mask effectiveness, benefits to oneself and the community.

This Appendix provides details on the following:

1. The masks
2. Distribution scripts for community health workers
3. Additional information treatment messages at distribution
4. Reminder text messages for additional information treatment arms
5. Additional details of the Role model Intervention

#### 1. The masks

The 10,000 masks were provided to the Siaya Ministry of Health by SafeHands Kenya, a private sector consortium deploying masks, soap and sanitizer across Kenya. In collaboration with many NGO partners, they have developed the #tibanisisi (We are the cure!) campaign, and part of our social messaging will use this proven branding. The masks are neutral in color, and contain a message 'sio ya kuuza' ('Not for sale') to prevent community health workers and recipients from selling masks onward.

#### 2. Distribution script for community health workers

Community health workers provided two similar scripts to households in the masks & education and education only arms:

##### ***Mask + Education Group Script***

I am here today to provide a cloth mask to you and your household members of 6 years and older. These masks should not be shared with others and should be washed frequently. As a reminder, all Kenyans aged 6 years or older are mandated to wear a mask in public. Wearing a mask protects you and others in your community, but it does not completely eliminate the risk of COVID. If you do not currently have a mask or prefer a different one, they are generally quite inexpensive and widely available. This does not have to be a surgical mask, cloth masks are also effective, and you can even make your own at home. Remember that you should continue to wash your hands, maintain a distance of at least 2 meters from others, avoid touching your mouth, eyes, and the nose; and avoid handshakes and hugs [emphasize] even when you are wearing a mask. SHOW AND EXPLAIN VISUALIZATION 1

Face coverings help prevent the spread of COVID by blocking the air that comes out of a person's mouth and nose when they breathe, talk, cough, sneeze, laugh, or even sing. When an infected person wears a mask, the cloth blocks the air that contains the virus from reaching

another person. Remember that a mask needs to cover both your mouth and nose to be effective.

Here are some tips for putting on a mask. SHOW VISUALIZATION 2 and go over proper mask wearing practices. If children are part of the household, go over procedures to adjust the mask straps so that it fits the child securely and comfortably.

Wearing a mask protects you and others in your community. You should wear a mask whenever you are in public places – at work, public transport, markets, shops, classrooms, places of worship, healthcare facilities. You should even wear a mask when you see members from another household.

Thank you for helping to keep our community safe from coronavirus.

### ***Education Only Script***

Remember, all Kenyans aged 6 years or older are mandated to wear a mask in public. Wearing a mask protects you and others in your community, but it does not completely eliminate the risk of COVID. If you do not currently have a mask or prefer a different one, they are generally quite inexpensive and widely available. This does not have to be a surgical mask, cloth masks are also effective, and you can even make your own at home. Remember that you should continue to wash your hands, maintain a distance of at least 2 meters from others, avoid touching your mouth, eyes, and the nose; and avoid handshakes and hugs [emphasize] even when you are wearing a mask.

Face coverings help prevent the spread of COVID by blocking the air that comes out of a person's mouth and nose when they breathe, talk, cough, sneeze, laugh, or even sing. When an infected person wears a mask, the cloth blocks the air that contains the virus from reaching another person. Remember that a mask needs to cover both your mouth and nose to be effective.

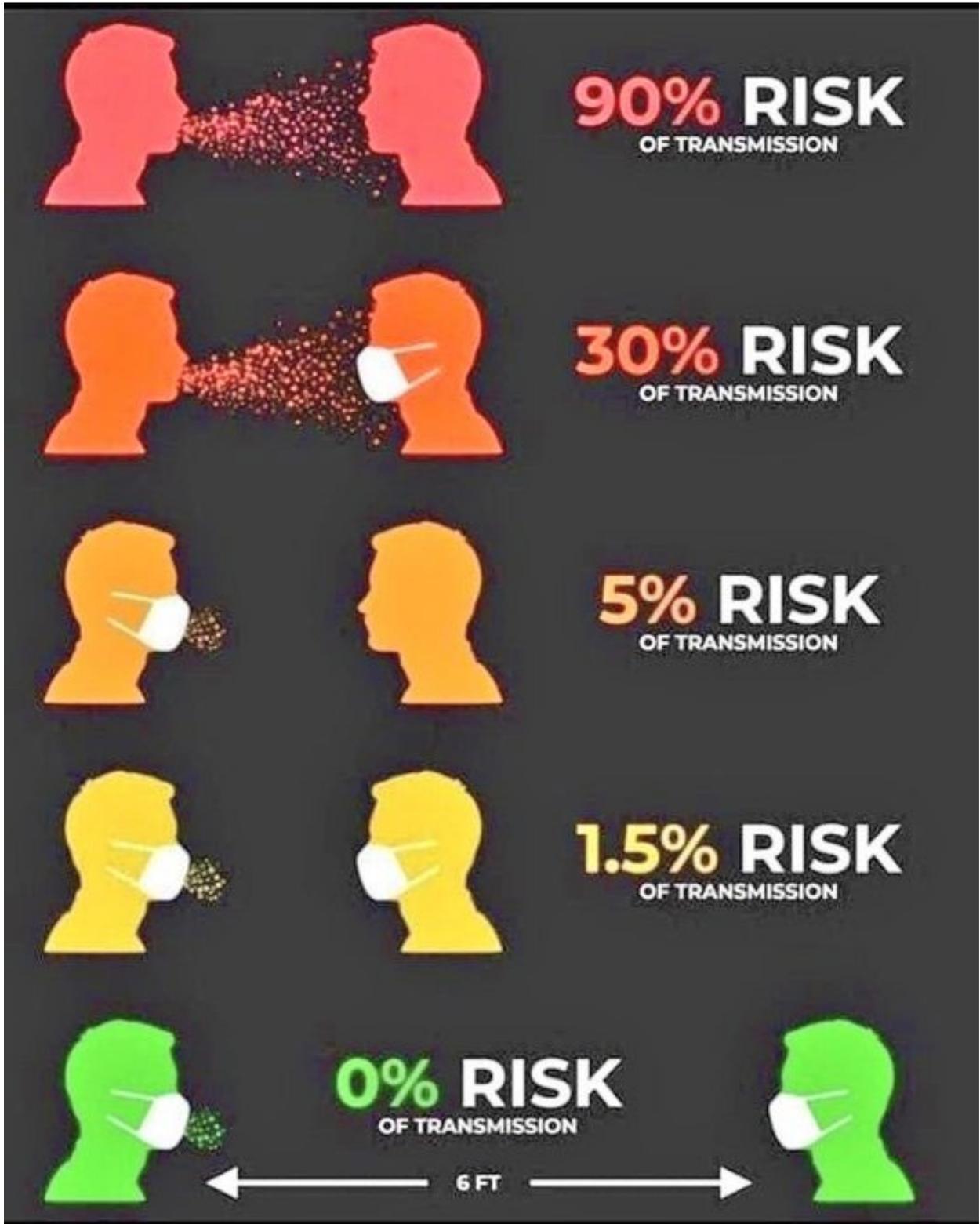
Here are some tips for putting on a mask. SHOW VISUALIZATION 1 and go over proper mask wearing practices. If children are part of the household, go over procedures to adjust the mask straps so that it fits the child securely and comfortably.

Wearing a mask protects you and others in your community. You should wear a mask whenever you are in public places – at work, public transport, markets, shops, classrooms, places of worship, healthcare facilities. You should even wear a mask when you see members from another household.

***[Here is a bar of soap] Wash your hands with soap frequently for at least 20 seconds.***

Thank you for helping to keep our community safe from coronavirus.

VISUALIZATION 1



VISUALIZATION 2

# “Wearing a Mask: Dos and Don’ts”



 **DO: Cover nose and mouth**



 **DO: Pull hair back**



 **DO: Tie straps behind head & neck**



 **DO: Remove by grabbing from the back**



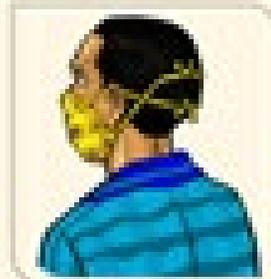
 **DON'T: Pull below the nose**



 **DON'T: Wear on forehead**



 **DON'T: Pull below chin**



 **DON'T: Cross straps**



 **DON'T: Leave hair down face**



 **DON'T: Hang from one ear**



 **DON'T: Leave a strap hanging**



 **DON'T: Wear a dirty or wet mask**

### 3. Additional Information Treatment Messages at Distribution

At the time of mask or soap distribution, households randomly selected to receive an additional information treatment received one of the following messages, depending on their assigned message treatment status:

#### *ADDITIONAL INFORMATION: INCORRECT BELIEFS ABOUT MASK EFFECTIVENESS:*

Here is the science behind masks: when you breathe you produce tiny droplets that travel through air, usually as far as 2 meters. If you are infected, the droplets your body produces carry the virus. This picture shows a man breathing with and without a mask. SHOW VISUALIZATION 3A. When his mouth and nose is covered by the mask, very little air travels far enough to reach another person. SHOW VISUALIZATION 3B. Notice that if the mask covers only his mouth but not his nose, that's almost as if he was not wearing a mask. This is why it's important that the mask covers both your nose and mouth, so that if you happen to be infected, the tiny droplets you produce when you breathe don't reach another person. In short, the best evidence available suggests that wearing a mask is one of the most effective tools for reducing covid-19 spread.

#### *ADDITIONAL INFORMATION: INCORRECT BELIEFS ABOUT SEVERITY OF COVID-19 / INFECTION PROBABILITY:*

Remember, even though the growth rate of cases in Kenya may be slowing, new infections continue to occur, and COVID-19 is potentially a very serious illness. Symptoms of COVID could be mild like fever or cough, but in other cases they could result in very serious illness that requires hospitalization, and could even lead to death. It's important to keep in mind that even a person who does not have any symptoms can be infected and spread the virus. This is why everyone should wear a mask, whether they are feeling sick or completely healthy. Around the world, hundreds of thousands of people have died. Although everyone is at risk, it can be particularly severe for the elderly, or those with pre-existing conditions.

Moreover, COVID-19 is highly infectious! It's important that you protect yourself even if you are in very good health so that you don't accidentally spread the disease to others. Just a few infected people in our community could quickly turn into a widespread outbreak. SHOW VISUALIZATION 4. Notice how quickly the virus can spread if people don't wear masks and maintain 2 meters distance from each other. For example, if you don't wear a mask and transmit COVID to 3 friends today, and your friends also don't wear masks and transmit COVID to 3 of their friends next week, and those 3 people don't wear masks and transmit it to 3 friends the week after, and so on, then there will be over 300 people infected within a month, and over 25,000(!) infected within 2 months.

#### *ADDITIONAL INFORMATION: INATTENTION:*

We are all still getting used to wearing masks. Sometimes it may be easier to remember to bring the mask with you if you hang it in a place by the doorway where you will be reminded to bring it

with you on your way out the door. Could we take a moment right now to think through a place where you could hang your mask to help you remember it?

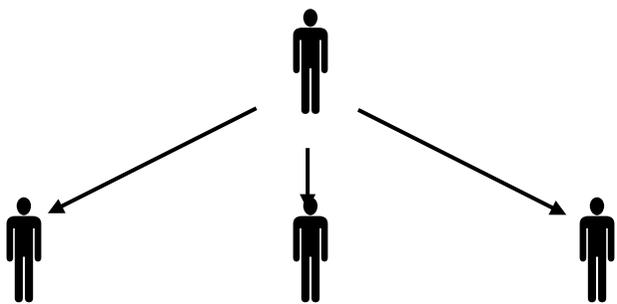
VISUALIZATION 3A



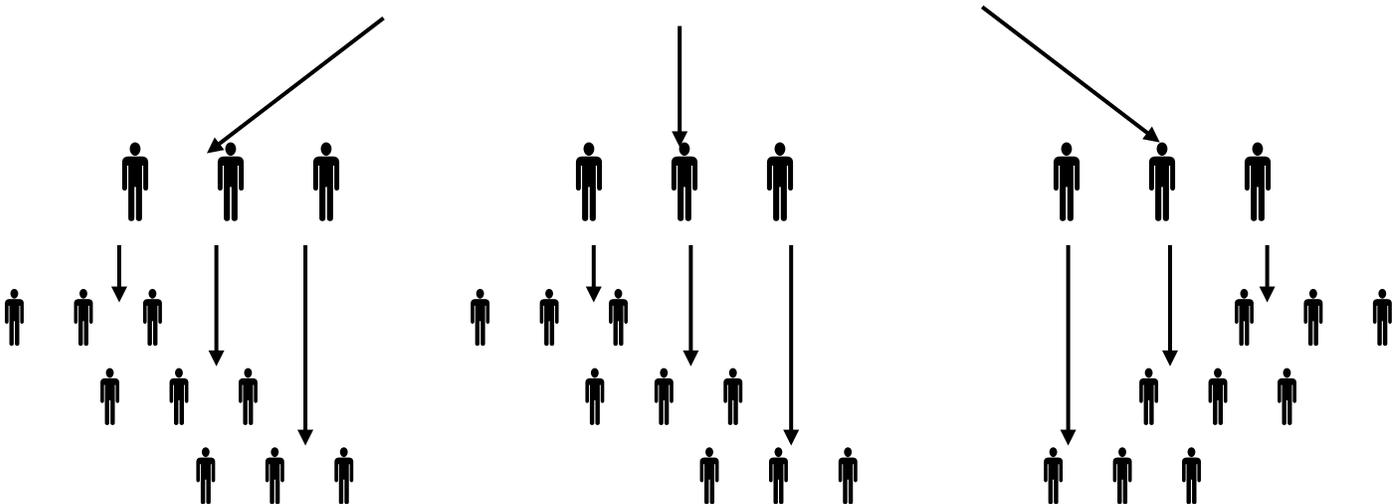
VISUALIZATION 3B



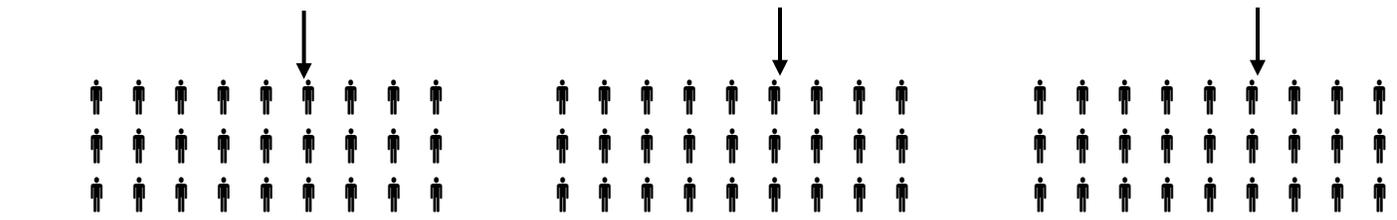
VISUALIZATION 4



Week



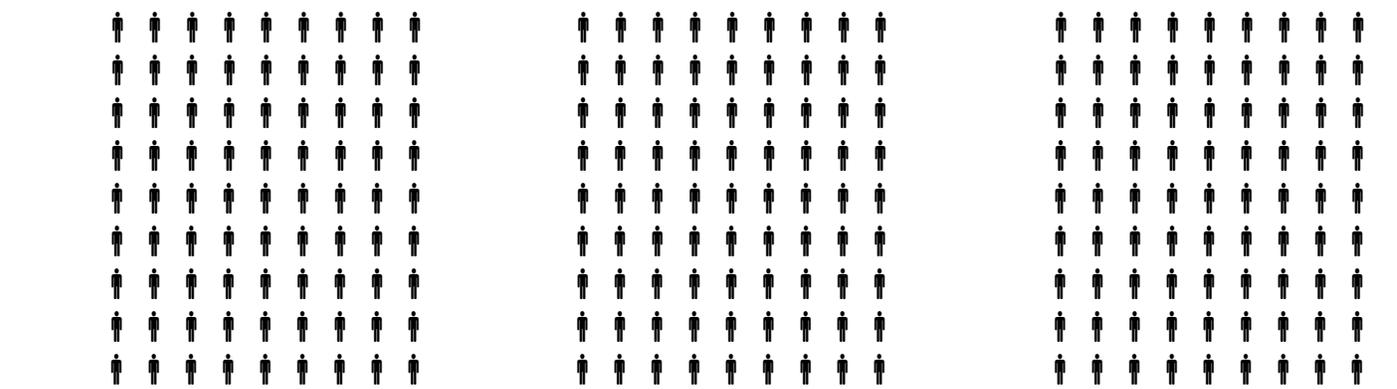
Week



Week



Week



Week

#### 4. Reminder text messages for additional information treatment arms

*[INCORRECT BELIEFS ABOUT MASK EFFECTIVENESS]:* Hi {Name}. This is a message from Siaya Ministry of Health. Don't forget that when you wear a mask it should cover your mouth and nose to prevent tiny droplets in the air you breathe from reaching another person. Even people who don't feel any symptoms may spread the disease, so it's important for everyone to wear a mask!

Jambo {Name}. Ujumbe huu watoka katika wizara ya afya Siaya. Usisahau kua unapovaa barakoa unapaswa kufunika mdomo wako na mapua ilikuzuia viini vidogo vilivyo katika hewa tunayopua kufikia mtu mwingine. Hata watu wasiohisi dalili yoyote wanaweza sambaza virusi, kwa hivyo ni vyema kila mmoja kuvaa barakoa!

*[INCORRECT BELIEFS ABOUT SEVERITY OF COVID-19 / INFECTION PROBABILITY]:* Hi {Name}. This is a message from Siaya Ministry of Health. COVID-19 is a serious illness and the number of cases continues to rise. Symptoms of COVID could be mild like fever or cough, but in other cases they result in very serious illness or even death. Even people who don't feel any symptoms may spread the disease, so it's important for everyone to wear a mask!

Jambo {Name}. Ujumbe huu watoka katika wizara ya afya Siaya. COVID-19 ni ugonjwa hatari na idadi ya wahathiriwa inazidi kupanda. Dalili ya COVID inaweza kuwa kuhisi baridi, kikohozi. Pia inaweza sababisha vifo kwa wengine. Hata watu wasiohisi dalili yoyote wanaweza sambaza virusi, kwa hivyo ni vyema kila mmoja kuvaa barakoa!

*[INATTENTION]:* Hi {Name}. This is a message from Siaya Ministry of Health. We are all still getting used to wearing masks. Hanging the mask by the doorway makes it easy to remember to bring the mask with you. Even people who don't feel any symptoms may be infected and could spread the disease, so it's important for everyone to wear a mask!

Jambo {Insert Name}. Ujumbe huu watoka katika wizara ya afya Siaya. Sisi bado tunaendelea na uzoefu wa kuvaa barakoa. Kuining'iniza barakoa kando ya mlango inakuwezasha kuikumbuka wakati unaondoka. Hata watu wasiohisi dalili yoyote wanaweza sambaza virusi, kwa hivyo ni vyema kila mmoja kuvaa barakoa!

#### 5. Additional details of the Role model Intervention

##### 5.1. Identifying role models

In each role model village, we will sign up a set of 'Role models' for promoting mask use. These role models include a) a village elder, b) the community health worker, and c) a set of up to 2 people identified by peers as 'trustworthy in health matters'. We identify 'trustworthy' individuals

by first calling a random subset of 10 households in each village by phone, and ask the following question:

1. 'Who are the people in this village, both within and outside of this neighborhood, that you and many villagers trust in matters related to health? For example, this is a person you and many others would go to for advice on health related issues.' *Name up to 5 people in order of their trustworthiness.*
  - a.  | *Select from village roster*
  - b.  | *Select from village roster*
  - c.  | *Select from village roster*
  - d.  | *Select from village roster*
  - e.  | *Select from village roster*

We select the 3 people most frequently named in each village. In the case where multiple people are named equally many times, we take the person with the lowest cumulative rank from the above question. If a respondent is not available, or does not consent, we will contact the next ranked person on the list until we are able to enlist a role model.

## 5.2. Incentivizing role models

These role models will be contacted by REMIT, and incentivized to:

- Wear the branded #TIBANISISI ('We are the cure') mask in public
- Promote mask use in their social interactions and by text message

Incentives are small gifts of airtime that depend partly on a) self-reported promotion activities, b) reports by respondents in the village of having received a promotion / reminder by you, and c) the overall increase in mask use measured at midline. The compensation formula is:

$$\text{Airtime} = 100\text{KSh} + \text{share\_selfreport} * 50\text{Ksh} + \text{share\_report} * 100 \text{Ksh} + \text{top-25\%} * 100 \text{Ksh}$$

where *share\_selfreport* is the share of midline weeks (up to 4 weeks after distribution) they report having done any promotional activities, based on self-reports from monitoring surveys, *share\_report* is the share of weeks where at least 2 respondents in the village report having received any promotions from this person across all ML phone interviews, and top-25% is an indicator for the 25% of villages that had the highest mask wearing on average as measured by in-field observations across all ML rounds. This yields a minimum incentive payment of 100KSh, and a maximum payment of 350KSh -- with an expected average of around 225 KSh.

## 5.3. Sign-up of role models and informed consent

Before the start of the intervention, we contact the selected role models in each village by phone, and enroll the role model using the Role Model Informed Consent and Role Model Enrollment Script.

## 5.4. Training of role models

After consenting, role models will then be read the same education script as the rest of their village. They receive a shortened version of the training provided to community health workers as part of their 30 minute enrollment survey. We will highlight the key information contained in these messages on a hand-out that they keep after enrolment. They will also be reminded that any in-person promotional activities should observe social distancing guidelines, and be conducted wearing masks.

Intended role models that do not consent to wearing a mask and promote mask use will not be selected. Moreover, if, during the role model recruitment survey, the role model shows to have seriously inaccurate beliefs about covid-19, its symptoms, mode of transmission or the effectiveness of prevention behaviors and treatments, we will screen out these individuals from our role-model intervention to avoid the spread of misinformation about covid-19.