

Mobile Phone Survey

Questions and Indicators

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Editor's Note

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1. INTRODUCTION

1.1 Overview

Efficient monitoring and surveillance are cornerstones to track progress of disease burden, related risk factors and policy interventions. The systematic monitoring of risk factors to generate accurate and timely data is essential for a country's ability to prioritize essential resources and make sound public health policy decisions.

With increasing access and use of mobile phones globally, opportunities exist to use mobile phone technology as an interim method to collect data and supplement infrequent household surveys. Such technologies have the potential to allow for efficiencies in producing timely, affordable and accurate data to monitor trends, and augment traditional health surveys with new, faster mobile phone surveys.

The Bloomberg Philanthropies Data for Health (D4H) Initiative aims to strengthen the collection and use of critical public health information. One of the components of the initiative aims to explore innovative approaches to risk factor surveillance, including the use of mobile phone surveys. The main objectives of this component are to:

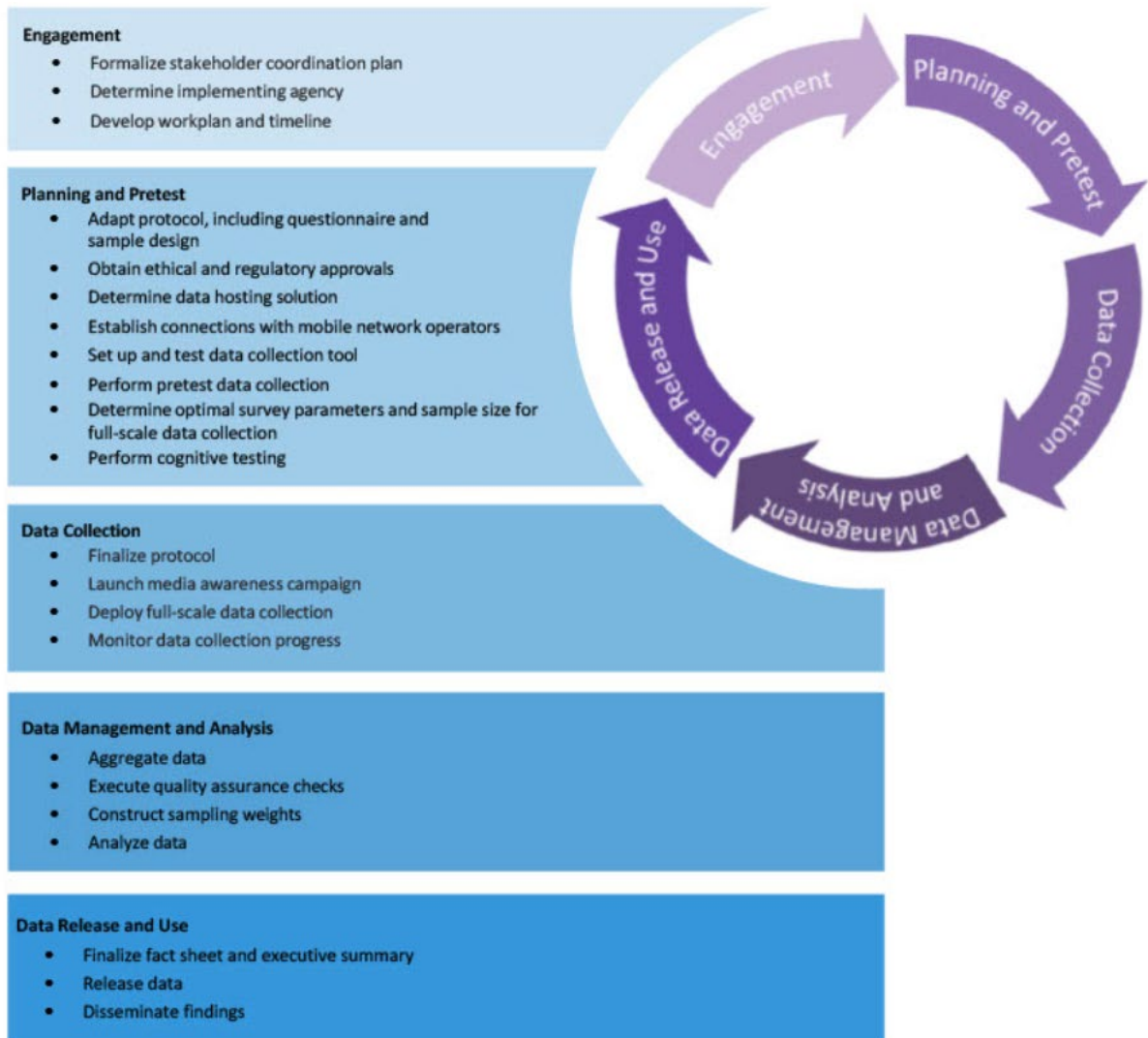
- **Empower Country Governments:** Collaborate with ministries of health to implement mobile phone technology for the systematic collection of representative health-related data, facilitating ongoing risk factor surveillance and informed public health decision-making.
- **Develop a Standardized Mobile Phone Survey Framework:** Create and promote a globally recognized mobile phone survey protocol that ensures uniformity in data collection methods, enhancing the reliability and comparability of health data across diverse populations.
- **Optimize Mobile Phone Survey Effectiveness:** Evaluate and identify best practices in the design and implementation of mobile phone surveys, ensuring they are tailored to effectively capture critical health risk factors.

The Mobile Phone Survey is a representative survey of adults 18 years of age and older. The survey uses standardized instruments and procedures reviewed and approved by international experts. This includes a core questionnaire with optional questions, sample design utilizing random digit dialing (RDD), data management procedures and data collection using single or mixed modes such as interactive voice response (IVR), short message service (SMS), mobile web and computer-assisted telephone interviewing (CATI). The implementation process consists of five stages: 1) engagement; 2) planning and pretesting; 3) data collection; 4) data management and analysis; and 5) data release and use. Details on each stage are presented in the Mobile Phone Survey Process Chart (see **Figure 1**).

Figure 1. Mobile Phone Survey Process Chart

Mobile Phone Survey Process

The Mobile Phone Survey is a representative survey of adults aged 18 or older that uses mobile phone technology to collect data on diseases and associated risk factors. Data are collected through computer assisted telephone interviews (CATI), text message (SMS), automated phone call (IVR), mobile web or mixed modes following a standard protocol. The Mobile Phone Survey provides timely data to support monitoring and evaluation of public health programs and policies.



Visit NCDmobile.org for all tools including the following technical manuals:

- Implementation Instructions
- Survey Technology
- Questions and Indicators
- Data Management and Analysis
- Sampling Design

1.2 Purpose

This manual introduces the questions on the Mobile Phone Survey. These questions reflect those currently used by global surveillance systems, including the WHO STEPwise approach to Surveillance (STEPS), the Centers for Disease Control and Prevention (CDC) and the Tobacco Questions for Surveys (TQS). This guide presents definitions and instructions for administering the core questions. Lastly, the manual presents indicators that can provide supplemental results for health-related information and key behavior risk factors assessed in national surveillance systems.

The Mobile Phone Survey includes 37 core questions on the following topics:

- Demographics
- Tobacco Use
- Alcohol Use
- Diet (Fruit and Vegetable Consumption)
- Diet (Salt Consumption)
- Blood Pressure
- Diabetes
- Physical Activity

Countries conducting the Mobile Phone Survey will need to adapt the questionnaire to suit their needs; this may include deletions or insertions to the topics included above or the inclusion of questions from other topics. Question wording will also need to be modified to suit the mode of data collection for either IVR, SMS, mobile web or CATI. The following sections of this manual will go through the standard questions on the mobile phone survey.

2. LANGUAGE

QXX. Language

[In predominant language]

P1. Language PREAMBLE: Hello, my name is [XXXXXXXXXX] and I am calling on behalf of the Ministry of Health to ask you if you would participate in a brief survey to help us prioritize public health policies in [Country]. Your phone number was randomly selected, and your participation is voluntary. Would you like to continue in....[IN EACH LANGUAGE BELOW]

Add Interview Language Text		
English	1	Ask Q2
[Add others]	2	Ask Q2
[Add others]	3	Ask Q2
REFUSED	#	END SURVEY

3. MOBILE PHONE SURVEY INTRODUCTION, INSTRUCTIONS, AND CONSENT

QXX. Consent

The Mobile Phone Survey begins with a brief introduction followed by consent to participate in the survey. Please note that further adaptation may be required depending on the mode of data collection and country contextualization.

P2. INTRODUCTION. Before we start, I'd like you to know that this interview will take no more than 10 minutes of your time. Any information you share will be confidential and kept private, and nothing will be asked that identifies you or your family. All questions are voluntary. [Insert instructions about remuneration/ incentives, if any.] Do you agree to participate in the survey?

1. YES, RESPONDENT CONSENTED
2. NO, RESPONDENT REFUSED

RESPONSE		GO TO:
YES	1	Ask Q3 (SEX)
NO	2	END SURVEY

4. DEMOGRAPHICS

QXX. SEX

sex: The first questions ask about your background. To begin with, are you male or female?*		
MALE	1	Ask Q4 (AGE)
FEMALE	3	Ask Q4 (AGE)
REFUSED/ DON'T KNOW	99	END OF SURVEY

*There is no option to refuse this question. Participants must select male or female to move forward.

Indicator D1 (sex): Percentage of respondents by sex

- Numerator: Number of respondents who reported "Male" OR "Female"
- Denominator: Total number of respondents surveyed

- No minimum or maximum values

QXX. AGE

age: How old are you? If you don't know exactly, please provide your best guess.*		
AGE	0-17	END OF SURVEY
AGE	18-99	Ask Q5 (URBANICITY)
REFUSED/ DON'T KNOW	999	END OF SURVEY

*There is no option to refuse this question. Participants must input a number to move forward.

Indicator D2 (agecat): Percentage of respondents age 18 years and older classified by age category

- Numerator: Number of respondents in each of the age categories, "18-29", "30-44", and "45+"
- Denominator: Total number of respondents surveyed (**excludes** ages "0-17" and ">100")
- Minimum value = 18
- Maximum value = 99

QXX. Urbanicity

urbanicity: Do you currently live in an urban or rural area?		
URBAN	1	Ask Q6 (EDUCATION)
RURAL	3	Ask Q6 (EDUCATION)
REFUSED/ DON'T KNOW	99	Ask Q6 (EDUCATION)

Indicator D3 (urbanicity): Percentage of respondents age 18 years and older classified by urbanicity

- Numerator: Number of respondents who reported "Urban" OR "Rural"
- Denominator: Total number of respondents surveyed
- No minimum or maximum values

QXX. Education

education: What is the highest level of school you have completed?		
NO FORMAL EDUCATION	1	GO TO P7 (TOBACCO PREAMBLE)
PRIMARY SCHOOL	2	GO TO P7 (TOBACCO PREAMBLE)
SECONDARY SCHOOL	3	GO TO P7 (TOBACCO PREAMBLE)

POST-SECONDARY SCHOOL	4	GO TO P7 (TOBACCO PREAMBLE)
COLLEGE OR HIGHER	5	GO TO P7 (TOBACCO PREAMBLE)
REFUSED/ DON'T KNOW	99	GO TO P7 (TOBACCO PREAMBLE)

Indicator D4 (education): Percentage of respondents age 18 years and older classified by education

- Numerator: Number of respondents in each of the education categories
- Denominator: Total number of respondents surveyed
- No minimum or maximum values

5. TOBACCO USE

5.1 Tobacco Smoking Prevalence

P7. Tobacco PREAMBLE: The following questions are about tobacco use. First, I would like to ask you about smoking tobacco, including cigarettes, cigars and pipes [add local examples]. Do not include smokeless tobacco or e-cigarettes at this time.

QXX. Tobacco Prevalence

smoke1: Do you currently smoke any tobacco products?		
YES	1	Ask Q8 (smoke1_daily)
NO	3	Ask Q9 (smoke1_ever)
REFUSED/ DON'T KNOW	99	Ask Q9 (smoke1_ever)

Indicator T1 (current_smoker): Percentage of respondents who currently smoke tobacco

- Numerator: Number of respondents who answered “YES” to currently smoke tobacco (smoke1)
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and missing)

5.2 Daily Tobacco Smoking Prevalence

QXX. Daily Smoking

smoke1_daily: Do you currently smoke tobacco products daily?		
YES	1	Ask Q11 (smoke2)
NO	3	Ask Q9 (smoke1_ever)
REFUSED/ DON'T KNOW	99	Ask Q9 (smoke1_ever)

Indicator T2 (daily_smoker): Percentage of respondents who currently smoke tobacco daily:

- Numerator: Number of respondents who answered “YES” to currently smoke tobacco daily (smoke1_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1 (**excludes** “Refused/ Don’t Know” and missing from smoke1_daily and smoke1)

5.3 Ever Tobacco Smoking Prevalence

QXX. Ever Smoker

smoke1_ever: In the past did you ever smoke any tobacco products?		
YES	1	Ask Q10 (smoke1_everdaily)
NO	3	Ask Q11 (smoke2)
REFUSED/ DON'T KNOW	99	Ask Q11 (smoke2)

Indicator T3 (ever_smoke): Percentage of respondents who have ever smoked tobacco:

- Numerator: Number of respondents who answered “YES” to ever smoke tobacco (smoke1_ever) **AND** number of respondents who answered “YES” to smoke1
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1 (**excludes** “Refused/ Don’t Know” and missing from smoke1_ever and smoke1)

5.4 Ever Daily Tobacco Smoking Prevalence

QXX. Ever Daily Smoker

smoke1_everdaily: In the past did you ever smoke tobacco daily?		
YES	1	Ask Q11 (smoke2)
NO	3	Ask Q11 (smoke2)
REFUSED/ DON'T KNOW	99	Ask Q11 (smoke2)

Indicator T4 (ever_daily_smoke): Percentage of respondents who have ever smoked tobacco daily:

- Numerator: Number of respondents who answered “YES” to ever smoke tobacco daily (smoke1_everdaily) **AND** number of respondents who answered “YES” to smoke1_daily

- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1_ever (**excludes** “Refused/ Don’t Know” and missing from smoke1_ever and smoke1_everdaily)

5.5 Non-Daily Tobacco Smokers

QXX. Non-Daily Smoker

smoke1_nondaily: Current smokers who do not smoke daily		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T5 (nondaily_smoker): Percentage of respondents who currently smoke tobacco but do not smoke daily:

- Numerator: Number of respondents who answered “YES” to current smoker (smoke1) AND answered “NO” to tobacco daily (smoke1_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1 (*excludes* “Refused/ Don’t Know” and missing from smoke1 and smoke1_daily)

5.6 Never Tobacco Smoking Prevalence

QXX. Never Smoker

smoke1_never: Respondents who have never smoked tobacco		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T6 (never_smoke): Percentage of respondents who have never smoked tobacco:

- Numerator: Number of respondents who answered “NO” to current_smoker (smoke1) AND answered “NO” to ever tobacco smoking (smoke1_ever)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1 (*excludes* “Refused/ Don’t Know” and missing from smoke1 and smoke1_ever)

5.7 Former Tobacco Smokers

QXX. Former Smoker

smoke1_former: Respondents who were former smokers		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T7 (former_smoker): Percentage of respondents who formerly smoked tobacco but do not smoke now:

- Numerator: Number of respondents who answered “NO” to current smoker (smoke1) *AND* answered “YES” to ever smoker (smoke1_ever)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1 (*excludes* “Refused/ Don’t Know” and missing from smoke1 and smoke1_ever)

5.8 Current Daily Tobacco Smokers Among Smokers

QXX. Current Daily Smoker

current_daily_among_smokers: Respondents who currently smoke daily among smokers		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T8 (current_daily_among_smokers): Percentage of respondents who currently smoke tobacco daily among smokers:

- Numerator: Number of respondents who answered “YES” to current smoker (smoke1) *AND* answered “YES” to daily smoker (smoke1_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1 (*excludes* “Refused/ Don’t Know” and missing from smoke1 and smoke1_daily)

5.9 Smokeless Tobacco Prevalence

P11. Tobacco PREAMBLE: The next questions are about using smokeless tobacco, such as chewing tobacco [Requires country adaptation]. Smokeless tobacco is tobacco that is not smoked, but is sniffed through the nose, held in the mouth or chewed.

QXX. Smokeless Tobacco User

smoke2: Do you currently use any smokeless tobacco products such as [snuff, chewing tobacco, betel]?		
YES	1	Ask Q12 (smoke2_daily)

NO	3	Ask Q13 (smoke2_ever)
REFUSED/ DON'T KNOW	99	Ask Q13 (smoke2_ever)

Indicator T9 (current_smokeless): Percentage of respondents who currently use smokeless tobacco

- Numerator: Number of respondents who answered “YES” to currently use smokeless tobacco (smoke2)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke2 (excludes “Refused/ Don’t Know” and missing)

5.10 Daily Smokeless Tobacco Prevalence

QXX. Daily Smokeless User

smoke2_daily: Do you currently use smokeless tobacco products daily?		
YES	1	Go to P15 (Smokeless Preamble)
NO	3	Ask Q13 (smoke2_ever)
REFUSED/ DON'T KNOW	99	Ask Q13 (smoke2_ever)

Indicator T10 (daily_smokeless): Percentage of respondents who currently use smokeless tobacco daily

- Numerator: Number of respondents who answered “YES” to currently use smokeless tobacco (smoke2_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke2 (excludes “Refused/ Don’t Know” and missing from smoke2 and smoke2_daily).

5.11 Ever Smokeless Tobacco Prevalence

QXX. Ever Smokeless User

smoke2_ever: In the past did you ever use smokeless tobacco products?		
YES	1	Ask Q14 (smoke2_everdaily)
NO	3	Go to P15 (Smokeless Preamble)
REFUSED/ DON'T KNOW	99	Go to P15 (Smokeless Preamble)

Indicator T11 (ever_smokeless): Percentage of respondents who have ever used smokeless tobacco:

- Numerator: Number of respondents who answered “YES” to ever used smokeless tobacco (smoke2_ever) **AND** number of respondents who answered “YES” to smoke2
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke1 (*excludes* “Refused/ Don’t Know” and missing from smoke2_ever and smoke2)

5.12 Ever Daily Smokeless Tobacco Prevalence

QXX. Ever Daily Smokeless User

smoke2_everdaily: In the past did you ever use smokeless tobacco daily?		
YES	1	Go to P15 (Smokeless Preamble)
NO	3	Go to P15 (Smokeless Preamble)
REFUSED/ DON'T KNOW	99	Go to P15 (Smokeless Preamble)

Indicator T12 (ever_daily_smokeless): Percentage of respondents who have ever used smokeless tobacco daily:

- Numerator: Number of respondents who answered “YES” to ever used smokeless tobacco daily (smoke2_everdaily) **AND** number of respondents who answered “YES” to smoke2_daily
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke2_ever (*excludes* “Refused/ Don’t Know” and missing from smoke1_ever and smoke1_everdaily)

5.13 Non-Daily Smokeless Tobacco Prevalence

QXX. Non-Daily Smokeless User

smoke2_nondaily: Current smokeless tobacco users who do not use daily		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T13 (nondaily_smokeless): Percentage of respondents who currently use smokeless tobacco but do not use daily:

- Numerator: Number of respondents who answered “YES” to current smokeless (smoke2) **AND** answered “NO” to smokeless tobacco daily (smoke2_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke2 (*excludes* “Refused/ Don’t Know” and missing from smoke2 and smoke2_daily)

5.14 Never Smokeless Tobacco Prevalence

QXX. Never Smokeless User

smoke2_never: Respondents who have never used smokeless tobacco		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T14 (never_smokeless): Percentage of respondents who have never used smokeless tobacco:

- Numerator: Number of respondents who answered "NO" to current_smokeless (smoke2) **AND** answered "NO" to ever smokeless tobacco (smoke2_ever)
- Denominator: Total number of respondents who answered "YES" or "NO" to smoke2 (**excludes** "Refused/ Don't Know" and missing from smoke2 and smoke2_ever)

5.15 Former Smokeless Tobacco Prevalence

QXX. Former Smokeless User

smoke2_former: Respondents who were former smokeless tobacco users		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T15 (former_smoker): Percentage of respondents who formerly used smokeless tobacco but do not use it now:

- Numerator: Number of respondents who answered "NO" to current smoker (smoke2) **AND** answered "YES" to ever smokeless (smoke2_ever)
- Denominator: Total number of respondents who answered "YES" or "NO" to smoke2 (**excludes** "Refused/ Don't Know" and missing from smoke2 and smoke2_ever)

5.16 Current Daily Smokeless Tobacco Users Among Smokeless Tobacco Users

QXX. Currently Daily Smokeless User Among Smokeless Users

current_daily_among_smokeless: Respondents who currently use smokeless tobacco daily among smokeless tobacco users		
YES	1	Generated indicator

NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T16 (current_daily_among_smokeless): Percentage of respondents who currently use smokeless tobacco daily among smokeless tobacco users:

- Numerator: Number of respondents who answered “YES” to current smoker (smoke2) *AND* answered “YES” to daily smokeless (smoke2_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke2 (excludes “Refused/ Don’t Know” and missing from smoke2 and smoke2_daily)

5.17 Electronic Cigarette Prevalence

P15. E-cig PREAMBLE: Now I want to ask you about electronic cigarettes, which are also called e-cigarettes or vaping devices. These devices are battery powered and heat a liquid to produce vapor or aerosol instead of smoke. Examples of these products include [NAME LEADING BRANDS].

QXX. E-Cig User

smoke3: Do you currently use electronic cigarettes or any other vaping device?		
YES	1	Ask Q16 (smoke3_daily)
NO	3	Ask Q17 (smoke3_ever)
REFUSED/ DON'T KNOW	99	Ask Q17 (smoke3_ever)

Indicator T17 (current_vape): Percentage of respondents who currently use e-cigs

- Numerator: Number of respondents who answered “YES” to currently use e-cigs (smoke3)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3 (excludes “Refused/ Don’t Know” and missing)

5.18 Daily Electronic Cigarette Prevalence

QXX. Daily E-Cig User

smoke3_daily: Do you currently use electronic cigarettes or vape daily?		
YES	1	Ask Q19 (ets_home)
NO	3	Ask Q17 (smoke3_ever)
REFUSED/ DON'T KNOW	99	Ask Q17 (smoke3_ever)

Indicator T18 (daily_vape): Percentage of respondents who currently use e-cigarettes daily

- Numerator: Number of respondents who answered “YES” to currently use e-cigarettes (smoke3_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3 (excludes “Refused/ Don’t Know” and missing from smoke3 and smoke3_daily)

5.19 Ever Electronic Cigarette Prevalence

QXX. Ever E-Cig User

smoke3_ever: In the past did you ever use electronic cigarettes or any other vaping device?		
YES	1	Ask Q18 (smoke3_everdaily)
NO	3	Ask Q19 (ets_home)
REFUSED/ DON'T KNOW	99	Ask Q19 (ets_home)

Indicator T19 (ever_vape): Percentage of respondents who have ever used e-cigarettes:

- Numerator: Number of respondents who answered “YES” to ever used e-cigarettes (smoke3_ever) **AND** number of respondents who answered “YES” to smoke3
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3 (excludes “Refused/ Don’t Know” and missing from smoke3_ever and smoke3)

5.20 Ever Daily Electronic Cigarette Prevalence

QXX. Ever Daily E-Cig User

smoke3_everdaily: In the past did you ever use electronic cigarettes or vape daily?		
YES	1	Ask Q19 (ets_home)
NO	3	Ask Q19 (ets_home)
REFUSED/ DON'T KNOW	99	Ask Q19 (ets_home)

Indicator T20 (ever_daily_vape): Percentage of respondents who have ever used e-cigarettes daily:

- Numerator: Number of respondents who answered “YES” to ever used e-cigarettes daily (smoke3_everdaily) **AND** number of respondents who answered “YES” to smoke3_daily
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3_ever (**excludes** “Refused/ Don’t Know” and missing from smoke3_ever and smoke3_everdaily)

5.21 Non-Daily Electronic Cigarette Prevalence

QXX. Non-Daily E-Cig User

smoke3_nondaily: Current e-cigarette users who do not use daily		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T21 (nondaily_vape): Percentage of respondents who currently use e-cigarettes but do not use daily:

- Numerator: Number of respondents who answered “YES” to current vape (smoke3) *AND* answered “NO” to vape daily (smoke3_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3 (*excludes* “Refused/ Don’t Know” and missing from smoke3 and smoke3_daily)

5.22 Never Electronic Cigarette Prevalence

QXX. Never E-Cig User

smoke3_never: Respondents who have never used e-cigarettes		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T22 (never_vape): Percentage of respondents who have never used electronic cigarettes:

- Numerator: Number of respondents who answered “NO” to current_vape (smoke3) *AND* answered “NO” to ever_vape (smoke3_ever)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3 (*excludes* “Refused/ Don’t Know” and missing from smoke3 and smoke3_ever)

5.23 Former Electronic Cigarette Prevalence

QXX. Former E-Cig User

smoke3_former: Respondents who were former e-cigarette users		
YES	1	Generated indicator

NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T23 (former_vape): Percentage of respondents who formerly used e-cigarettes but do not use them now:

- Numerator: Number of respondents who answered “NO” to current_vape (smoke3) **AND** answered “YES” to ever_vape (smoke3_ever)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3 (*excludes* “Refused/ Don’t Know” and missing from smoke3 and smoke3_ever)

5.24 Current Daily Electronic Cigarette Users Among Electronic Cigarette Users

QXX. Current Daily E-Cig Users Among E-Cig Users

current_daily_among_vapers: Respondents who currently use e-cigarettes daily among e-cigarette users		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T24 (current_daily_among_vapers): Percentage of respondents who currently use e-cigarettes daily among e-cigarette users:

- Numerator: Number of respondents who answered “YES” to current_vape (smoke3) **AND** answered “YES” to daily_vape (smoke3_daily)
- Denominator: Total number of respondents who answered “YES” or “NO” to smoke3 (*excludes* “Refused/ Don’t Know” and missing from smoke3 and smoke3_daily)

5.25 Current Tobacco Prevalence

QXX. Current Any Tobacco Users

current_tobacco: Respondents who currently use any tobacco		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator T25 (current_tobacco): Percentage of respondents who currently use any type of tobacco

- Numerator: Number of respondents who answered “YES” to **EITHER** currently smoke tobacco (smoke1) **OR** currently use smokeless tobacco (smoke2) **OR** currently use electronic cigarettes (smoke3)
- Denominator: Total number of respondents surveyed (**excludes** those who responded “Refused/ Don’t Know” to **ALL THREE** variables)

5.26 Tobacco in Home Prevalence

QXX. Smoking in Home

ets_home: During the past 30 days did someone smoke in your home?		
YES	1	Ask Q20 (ets_work)
NO	3	Ask Q20 (ets_work)
REFUSED/ DON'T KNOW	99	Ask Q20 (ets_work)

Indicator T26 (smoke_home): Percentage of respondents who reported someone smoking in the home

- Numerator: Number of respondents who answered “YES” to someone smoking in the home (ets_home)
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and missing)

5.27 Tobacco at Work Prevalence

QXX. Smoking at Work

ets_work: During the past 30 days, did someone smoke in closed areas in your workplace (in the building, in a work area or a specific office)?		
YES	1	Next randomized section
NO	2	Next randomized section
DO NOT WORK OR DO NOT WORK IN A CLOSED AREA	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator T27 (smoke_work): Percentage of respondents who reported someone smoking in the office

- Numerator: Number of respondents who answered “YES” to someone smoking in the office (ets_work)
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and missing)

6. ALCOHOL USE

6.1 Alcohol Use in the Past Year

P21 Alcohol PREAMBLE: Now I would like to ask you some questions about alcohol use.

QXX. Alcohol User in the Past 12 Months

<u>alcohol_12mth</u>: Have you consumed any alcohol within the past 12 months?		
YES	1	Ask Q22 (alcohol_freq)
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator A1 (alcohol_1year): Percentage of respondents who drank any alcohol in the past 12 months

- Numerator: Number of respondents who answered “Yes” to drinking any alcohol in the past 12 months (alcohol_12mth)
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)

6.2 Alcohol Frequency in the Past Year

QXX. Alcohol Frequency Past 12 Months

<u>alcohol_freq</u>: During the past 12 months, how frequently have you had at least one standard alcoholic drink? Did you drink...		
DAILY	1	Ask Q23 (alcohol1)
3-6 DAYS PER WEEK	2	Ask Q23 (alcohol1)
1-2 DAYS PER WEEK	3	Ask Q23 (alcohol1)
1-3 DAYS PER MONTH	4	Ask Q23 (alcohol1)
LESS THAN ONCE PER MONTH	5	Ask Q23 (alcohol1)
REFUSED/ DON'T KNOW	99	Ask Q23 (alcohol1)

Indicator A2 (alcohol_freq1year): Percentage of respondents who reported alcohol frequency by category in the past 12 months

- Numerator: Number of respondents who answered alcohol_freq and did not skip or were not missing
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)

6.3 Current Alcohol Use

QXX. Current Alcohol User

alcohol1: During the past 30 days, did you drink any alcohol?		
YES	1	Next randomized section
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator A3 (current_alcohol): Percentage of respondents who drank any alcohol in the past 30 days

- Numerator: Number of respondents who answered “Yes” to drinking any alcohol in the past 30 days (alcohol1)
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)

7. FRUIT CONSUMPTION

7.1 Number of Days Fruit is Typically Consumed during the Week

P24 Diet PREAMBLE: With the next questions, I would like to learn more about the foods that you eat.

QXX. Days of Fruit Consumed in a Week

fruit1: In a typical week, on how many days do you eat fruit such as banana, orange, watermelon, pineapple, pawpaw, sugarcane, avocado, [Requires country adaptation]?		
DAYS	0	Ask Q26 (vegetable1)
DAYS	1–7	Ask Q25 (fruit2)
REFUSED/ DON'T KNOW	99	Ask Q26 (vegetable1)

Indicator D1 (days_fruit): Mean number of days fruit consumed in a typical week

- Numerator: Sum of days per week fruit was consumed by all respondents who answered 0-7
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)
- Minimum value = 0
- Maximum value = 7

7.2 Number of Servings of Fruit Consumed on One of the Days When Fruit Was Eaten During the Week

QXX. Servings of Fruit Consumed in a Week

fruit2: A serving of fruit is a medium sized apple, banana, watermelon, pineapple, pawpaw, sugarcane, avocado or orange [add local examples] or half a cup of cooked or chopped fruit. How many servings of fruit do you eat on one of those days?		
SERVINGS	1–50	Ask Q26 (vegetable1)
REFUSED/ DON'T KNOW	99	Ask Q26 (vegetable1)

Indicator D2 (num_fruit): Mean number of servings of fruit consumed on average per day

- Numerator: Sum of servings of fruit consumed on a given day (fruit2) times the number of days per week fruit was consumed (fruit1)
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing and values greater than 20)
- Minimum value = 0
- Maximum value = 50

8. VEGETABLE CONSUMPTION

8.1 Number of Days Vegetables are Typically Consumed during the Week

QXX. Days of Vegetables Consumed in a Week

vegetable1: In a typical week, on how many days do you eat vegetables: cabbage, spinach, broccoli, okra, bean, cassava leaves, tomato, pumpkin leaves, [add local examples]?		
DAYS	0	Ask Q28 (salt1)
DAYS	1–7	Ask Q27 (vegetable2)
REFUSED/ DON'T KNOW	99	Ask Q28 (salt1)

Indicator D3 (days_veg): Typical number of days vegetables were consumed in a typical week

- Numerator: Sum of days per week vegetables were consumed by all respondents who answered 0-7
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)
- Minimum value = 0
- Maximum value = 7

8.2 Number of Servings of Vegetables Consumed on One of the Days When Vegetables Were Eaten During the Week

QXX. Servings of Veg Consumed in a Week

vegetable2: A serving of vegetables is about a cup of green leafy vegetables or salad or half a cup of cooked or chopped vegetables [INCLUDE OTHER COUNTRY EXAMPLES OF VEGETABLES]. How many of these servings of vegetables do you eat on one of those days?		
SERVINGS	1–50	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator D4 (num_veg): Mean number of servings of vegetables consumed on average per day

- Numerator: Sum of servings of vegetables consumed on a given day (vegetable2) times the number of days per week vegetables were consumed (vegetable1)
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing and values greater than 20)
- Minimum value = 1
- Maximum value = 50

8.3 Percentage of Respondents Who Consumed Less Than 5 Servings of Fruits or Vegetables a Day

QXX. Consume Less Than 5 Servings Daily

less_5_fruit_or_veg: Respondents who currently consume less than 5 servings of fruits or vegetables on average per day		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator D5 (less_5_fruit_or_veg): Percentage of respondents who consumed LESS THAN 5 servings of fruits OR vegetables on average per day

- Numerator: Sum of num_fruit and num_veg
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)
- No minimum or maximum values

8.4 Percentage of Respondents Who Consumed No Servings of Fruits or Vegetables a Day

QXX. No Fruits or Veg Daily

no fruit or veg: Respondents who currently consume no servings of fruits or vegetables on average per day		
YES	1	Generated indicator
NO	3	Generated indicator
REFUSED/ DON'T KNOW	99	Generated indicator

Indicator D6 (no_fruit_or_veg): Percentage of respondents who consumed NO servings of fruits OR vegetables on average per day

- Numerator: All respondents who indicated they ate fruits and vegetables 0 days in a typical week
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)
- No minimum or maximum values

9. SALT CONSUMPTION

9.1 Frequency with Which Salt Is Added to Food at Meals

P28. Diet PREAMBLE: I would like to learn more about the salt you eat. I would like you to think about all the sources of salt, including ordinary table salt, unrefined salt such as sea salt, iodized salt, salty stock cubes and powders and salty sauces such as soya sauce or fish sauce. [req. country-adaptation]

QXX. Add Salt as Eating

salt1: How often do you add salt or a salty sauce such as soya sauce [Requires country adaptation] to your food right before you eat it or as you are eating it? Would you say...		
ALWAYS	1	Ask Q29 (salt2)
OFTEN	2	Ask Q29 (salt2)
SOMETIMES	3	Ask Q29 (salt2)
RARELY	4	Ask Q29 (salt2)
NEVER	5	Ask Q29 (salt2)
REFUSED/ DON'T KNOW	99	Ask Q29 (salt2)

Indicator D7 (salt_meal): Percentage of respondents who always or often add salt or salty sauce to their food before eating or as they are eating

- Numerator: Number of respondents who answered “Always” or “Often” to adding salt/salty sauce to food before or during meal
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” answer responses)

- No minimum or maximum values

9.2 Frequency with Which Salt Is Added When Cooking or Preparing Food in the Household

QXX. Add Salt When Cooking

salt2: How often is salt, salty seasoning or a salty sauce added in cooking or preparing foods in your household? Would you say...		
ALWAYS	1	Ask Q30 (salt3)
OFTEN	2	Ask Q30 (salt3)
SOMETIMES	3	Ask Q30 (salt3)
RARELY	4	Ask Q30 (salt3)
NEVER	5	Ask Q30 (salt3)
DON'T KNOW	7	Ask Q30 (salt3)
REFUSED/ DON'T KNOW	99	Ask Q30 (salt3)

Indicator D8 (salt_cook): Percentage of respondents who always or often add salt or salty seasoning when cooking or preparing foods in the household

- Numerator: Number of respondents who answered “Always” or “Often” to adding salt/salty seasoning when cooking or preparing foods in the household
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” answer responses)
- No minimum or maximum values

9.3 Frequency with Which Processed Foods High in Salt Is Consumed

QXX. Eat Processed Food

salt3: How often do you eat processed food high in salt? By processed food high in salt, I mean foods that have been altered from their natural state, such as packaged salty snacks, canned salty food such as pickles, salty food prepared at a fast food restaurant, cheese, bacon and processed meat [add local examples]? Would you say...		
ALWAYS	1	Next randomized section
OFTEN	2	Next randomized section
SOMETIMES	3	Next randomized section
RARELY	4	Next randomized section
NEVER	5	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator D9 (salt_snack): Percentage of respondents who always or often eat processed foods high in salt

- Numerator: Number of respondents who answered “Always” or “Often” to eating processed food with a lot of salt in it.
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” answer responses)
- No minimum or maximum values

10. RAISED BLOOD PRESSURE OR HYPERTENSION

10.1 Ever Had Blood Pressure Measured by a Doctor or Health Worker

QXX. Ever Had Blood Pressure Measured

bp_measured: Have you ever had your blood pressure measured by a doctor or other health worker?		
YES	1	Ask Q32 (bp1)
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator H1 (BP_Measured): Percentage of respondents who reported ever having blood pressure measured by a doctor or other health worker

- Numerator: Number of respondents who answered “Yes” to ever having blood pressure measured by a doctor or other health worker
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” answer responses)

10.2 Raised Blood Pressure or Hypertension Diagnosis by a Doctor or Health Worker

QXX. Diagnosed with High Blood Pressure

bp1: Have you ever been told by a doctor or other health worker that you have raised or high blood pressure or hypertension?		
YES	1	Ask Q33 (bp2)
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator H2 (HTN): Percentage of respondents who reported being diagnosed with raised blood pressure or hypertension by a doctor or other health worker

- Numerator: Number of respondents who answered “Yes” to ever being told by a doctor or other health worker that they have raised blood pressure or hypertension

- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” answer responses)

10.3 Current Hypertension Treatment Prescribed by a Doctor or Health Worker to Those Diagnosed with Raised Blood Pressure

QXX. Taking Medication for High Blood Pressure

bp2: In the last 2 weeks, have you taken any drugs or medication for raised blood pressure that was prescribed for you by a doctor or other health worker?		
YES	1	Next randomized section
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator H3 (HTN_med): Percentage of respondents who reported taking medication for raised blood pressure in the past 2 weeks prescribed by a doctor or other health worker among those diagnosed with raised blood pressure or hypertension

- Numerator: Number of respondents who answered “Yes” to taking medication for raised blood pressure in the past 2 weeks that was prescribed by a doctor or other health worker
- Denominator: Total number of respondents who answered “Yes” to ever being diagnosed with raised blood pressure or hypertension (bp1) by a doctor or other health worker (**excludes** “Refused/ Don’t Know” answer responses)

11. DIABETES

11.1 Was Ever Had Blood Sugar Measured by Doctor or Health Worker

QXX. Ever Had Blood Sugar Measured

diabetes_measured: Have you ever had your blood sugar measured by a doctor or other health worker?		
YES	1	Ask Q35 (diabetes1)
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator D1 (diabetes_measured): Percentage of respondents who reported ever having their blood sugar measured by a doctor or other health worker

- Numerator: Number of respondents who answered “Yes” to ever having blood sugar measured by a doctor or other health worker

- Denominator: Total number of respondents surveyed (*excludes* “Refused/ Don’t Know” answer responses)

11.2 Diabetes or Raised Blood Sugar Diagnosis by a Doctor or Health Worker

QXX. Ever Diagnosed with Diabetes by Doctor

diabetes1: Have you ever been told by a doctor or other health worker that you have raised blood sugar or diabetes?		
YES	1	Ask Q36 (diabetes2)
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator D2 (diabetes): Percentage of respondents who reported ever being told they have high blood sugar or diabetes by a doctor or other health worker

- Numerator: Number of respondents who answered “Yes” to ever being told they have high blood sugar or diabetes by a doctor or other health worker
- Denominator: Total number of respondents surveyed (*excludes* “Refused/ Don’t Know” answer responses)

11.3 Taken Diabetes Medication Prescribed by a Doctor or Health Worker in the Past Two Weeks

QXX. Taken Diabetes Medication

diabetes2: In the last two weeks, have you taken any drugs or medications for diabetes prescribed to you by a doctor or other health worker?		
YES	1	Next randomized section
NO	3	Next randomized section
REFUSED/ DON'T KNOW	99	Next randomized section

Indicator D3 (diabetes_med): Percentage of respondents who reported taking medication for raised blood sugar or diabetes in the past 2 weeks prescribed by a doctor or other health worker among those diagnosed with raised blood sugar or diabetes

- Numerator: Number of respondents who answered “Yes” to taking medication for raised blood sugar or diabetes in the past 2 weeks that was prescribed by a doctor or other health worker
- Denominator: Total number of respondents who answered “Yes” to ever being diagnosed with raised blood sugar or diabetes (diabetes1) by a doctor or other health worker (*excludes* “Refused/ Don’t Know” answer responses)

12. PHYSICAL ACTIVITY

12.1 Days of 30 minutes or more moderate physical activity in the past week

QXX. Days of Physical Activity of 30 Minutes of More

pa1: In the past week, how many days have you done a total of 30 minutes or more of physical activity, which was enough to raise your breathing rate?		
DAYS	1-7	Ask next randomized question
REFUSED/ DON'T KNOW	99	Ask next randomized question

Indicator P1 (pa1): Mean number of days of 30 minutes or more of moderate physical activity in a typical week

- Numerator: Mean days per week 30 minutes or more of moderate physical activity reported by all respondents who answered 0-7
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)
- Minimum value = 0
- Maximum value = 7

12.2 Days (categorized) of 30 minutes or more of moderate physical activity in the past week

QXX. Average Time Physically Active

pa2: In the past week, how many days have you done a total of 30 minutes or more of physical activity, which was enough to raise your breathing rate?		
NONE	0	Generated indicator
1-2	1,2	Generated indicator
3-4	3,4	Generated indicator
5-6	5,6	Generated indicator
Daily	7	Generated indicator
REFUSED/ DON'T KNOW	#	Generated indicator

Indicator P2 (pa2): Days (categorized) of 30 minutes or more of moderate physical activity in a typical week

- Numerator: All respondents who indicated their amount of exercise in a typical week
- Denominator: Total number of respondents surveyed (**excludes** “Refused/ Don’t Know” and Missing)
- Minimum value = 0
- Maximum value = 7