

# Saudi Health Interview Survey Results



وزارة الصحة  
Ministry of Health

in collaboration with



Institute for Health Metrics and Evaluation

**W** UNIVERSITY of WASHINGTON

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Figure 1: Survey flow

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## Background

The Kingdom of Saudi Arabia (KSA) has made large strides in improving health standards over the past two decades. The Kingdom has seen a dramatic shift in its burden of disease profile, transitioning away from communicable, maternal, and perinatal causes and toward non-communicable diseases. The leading causes of death for females in 2010 in the KSA were ischemic heart disease (IHD) followed by cerebrovascular disease, representing 18% and 17% of total deaths, respectively. In comparison, IHD was the leading cause of death for males, followed by road traffic injuries and cerebrovascular diseases. Diabetes mellitus ranked sixth, causing 3.7% of the total deaths in males, while in females it ranked seventh, causing 3.8% of total deaths in 2010. Risk factors for death, such as high blood pressure, high fasting plasma glucose (FPG), and high body mass index (BMI), among men of all ages ranked second, third, and fourth in 2010, whereas in females these risk factors ranked first, fourth, and third, respectively. Dietary risk factors contributed to 25% and 24% of deaths among males and females, respectively, while in both males and females physical activity was ranked as the sixth risk factor for deaths in 2010.

The Ministry of Health of the KSA is currently investing in reforming its health information systems and began a five-year collaboration with the Institute for Health Metrics and Evaluation (IHME) in 2012 to implement an integrated health information system in the Kingdom. The first step of this collaboration is to implement a population-based surveillance system that integrates multiple data sources to track the risk factors for chronic diseases at the local level. This system will capture the complete spectrum of relevant information from socioeconomic context and health risk factors to disease incidence and the resulting cascade of hospitalizations, outpatient visits, and use of and adherence to interventions. It will enable the Kingdom of Saudi Arabia to gain more information regarding health outcomes, health risk factors, health services, and socioeconomic determinants. Furthermore, it will allow them to evaluate disparities in health and tailor interventions confronting chronic disease in the Kingdom of Saudi Arabia.

## **Survey objectives**

The primary objective of the Saudi Health Interview Survey (SHIS) was to collect data on health and demographic characteristics in order to assess the prevalence of several chronic conditions and identify their risk factors. The information provided by the survey will help the Ministry of Health better understand the health of people in the Kingdom of Saudi Arabia and provide a sound basis to better develop and implement preventive and curative programs throughout the Kingdom.

## **Survey operations**

The MOH has implemented and overseen the operation of the survey, including planning and conducting fieldwork and processing collected data. MOH staff was responsible for overseeing the day-to-day technical operations, including recruiting and training field and data-processing staff and supervising office and field operations.

Financial support for the survey was provided by the Kingdom of Saudi Arabia. The Institute for Health Metrics and Evaluation (IHME) provided technical assistance when required.

## **Training**

Joint and separate in-depth trainings were held for supervisors and local interviewers. During the training, survey experts from IHME and MOH introduced all aspects of the protocol and survey content, including methodology for physical measurement, to supervisors and interviewers. In addition, in-class practice was conducted in order to familiarize the interviewers with the instrument, and the intended purpose of each question was clearly explained. The training sessions included familiarizing interviewers and supervisors with using the computer software (DatStat) that was used for data collection. Interviewers learned DatStat and practiced administering the questionnaire and submitting the surveys in class.

A pilot study was conducted to familiarize the interviewers with the operation and the issues that might be encountered in the field. A final version of the survey was finalized based on the results of the pilot, and a final training was conducted in each region for all interviewers before the start of the survey.

## **Survey implementation**

Each local survey area was composed of a supervisor and approximately 20 interviewers (10 two-person teams). Interviewers visited households in teams of two consisting of one male and one female to ensure that respondents were interviewed by a member of the same sex.

Lenovo notebooks were used in administering and transmitting the data via a secure link to MOH. The Health Interview Survey comprises four modules, which are discussed in detail in the following sections. The questions have been specifically selected to provide information on demographics, morbidity, effective coverage, and leading health conditions within the population.

## **Survey organization**

The SHIS includes the following modules (described in detail later in this document):

- I. Household roster (**Module 1**)
- II. Selected adult questionnaire (**Module 2, part 1**)
  - a. Socio-demographic information
  - b. Tobacco use
  - c. Diet
  - d. General health status and functional health status
  - e. Physical activity
  - f. Access to and utilization of health care
  - g. Oral health



- h. History of chronic conditions
- i. Inventory of medications for chronic conditions
- j. Miscellaneous health behaviors
- III. Selected adult physical measurements (**Module 2, part 2**)
  - a. Anthropometry
  - b. Blood pressure, heart rate, and respiration
- IV. Disposition codes (**Module 3**)
- V. Selected adult biochemical measurements (completed at a local clinic) (**Module 4**)
  - a. Fasting lipid profile
  - b. Hemoglobin A1c
  - c. Vitamin D

Please refer to **Appendix 1** for the full instrument.

## **Survey flow**

The flow of the survey and linkage between different steps is summarized in **Figure 1**. As the figure shows, there are four main components to the SHIS: (1) the household roster, (2) questionnaire and physical measurements, (3) disposition codes, and (4) biochemical measurements.

Details on each section are provided below.

### **(1) Household roster module**

The SHIS starts with the household roster; after the household head was successfully identified, the interviewer administered the household roster module to them. If the head of household was away or unable to answer, a household member aged 15 years or older could fill in information for the roster. This module lasts about five minutes. Information collected for this module was used to randomly select an adult for the following modules. Specifically, at the end of the household roster module, the DatStat software randomly selected an eligible person from the list of all eligible persons in that household to participate in the rest of the survey.

## **(2) Questionnaire and physical measurements module**

This module has two sub-components: 1) questionnaire and 2) physical measurements.

Once the randomly selected individual was successfully contacted and consent was obtained, a series of demographic and health questions were asked, followed by recording of physical measurements. These physical measurements include weight, height, waist circumference, blood pressure, and heart and respiration rates. Omron HN286 (SN:201207-03163F) was used to measure weight. Omron M6 Comfort (HEM-7223-E) was used to measure blood pressure. At the end of this module, respondents were invited to visit their local health clinic to have their blood drawn and tested.

## **(3) Disposition codes module**

This module captures information used to calculate response rates and determines the final status of each contact with the selected household. When a survey was stopped at any point such as the end of or during a module, Datastat required a disposition code. When a survey was completed, the final disposition code was assigned as complete. This allowed the survey managers to monitor progress and assign work in the field. At the end of the survey, the disposition codes were used to compute the response rate.

## **(4) Biochemical measurements module**

Participants were referred to a local clinic, where their blood was drawn for testing. After blood had been drawn from the participant, the local clinic shipped the blood sample collected to King Fahd Medical City (KFMC) in Riyadh for analysis. The blood collected was tested for fasting lipid profile, hemoglobin A1c, and Vitamin D. The survey used a central lab to ensure the standardization of all measurements. Roche Hitachi COBAS 8000 was used to measure total cholesterol, HDL, LDL, triglycerides, and vitamin D. COBAS INTEGRA400 plus was used to measure HbA1c.

DatStat was used to enter values at clinics and the lab, and this information was then transmitted to the MOH. The household ID (HHID) was used for data entry at all levels. Date and time of when the blood sample was taken and questions about drugs (such as insulin) that might have been taken by the participant during that day were collected at the clinic. When the sample was analyzed at KFMC lab, a lab technician entered and transmitted the results of the blood analysis on DatStat.

## **Respondent recruitment**

The potential respondents were contacted by staff trained in interview procedures. Each potential respondent was informed about the purpose of the study and the approximate time needed for the interview. Written or verbal informed consent for participation was sought from each respondent. Potential respondents had the right to refuse participation, and a respondent could refuse to participate in the study at any given time. The respondent information sheet and informed consent form were translated into and administered in Arabic.

## **Confidentiality**

All interviews were conducted with the respondent without the presence of another person from the household. Each respondent was identified by a unique identifier (HHID) and not by his or her name. The roster was administered to the head of the household or the most knowledgeable person of the house if the head of the household was not present at the time of the first contact. The roster included all members of the family listed according to their date of birth. A random member aged 15 or older was selected for the interview. The data transmitted to MOH had the HHID and not the personal identity of the respondents (i.e., names of the respondents were not collected by questions in the survey and hence not transmitted to the MOH).

## **Data collection**

All interviews and physical measurements were done on a one-to-one basis. Each interview consisted of one interviewer and another interviewer responsible for physical measurements. Each team consisted of one male and one female interviewer to ensure that if a female was selected for the interview, a female interviewer could administer the questionnaire. No other person was present other than the respondent and the interviewer. Each respondent was identified by their HHID number.

## **Data-collection technology**

DatStat software was used for data collection. This data entry program included range and consistency checks to control the quality of data entered. The data collected through this software were immediately sent to MOH's server and were constantly monitored and checked for quality purposes. All computers had connections to the internet for continuous data upload and feedback. This allowed timely feedback to interviewers in the field, thereby allowing better data-collection results. MOH was responsible for translating the survey into Arabic, and IHME programmed the survey in Arabic using DatStat. The final instrument covered information about socio-demographic data; tobacco consumption, diet, and physical activity pattern; history of blood pressure and diabetes; anthropometric and blood pressure measurements; and biochemical assessment of total and HDL cholesterol and triglycerides, hemoglobin A1c, and vitamin D.

## **Study design**

The SHIS is based on a multistage representative sample of adults 15 years or older. The survey was conducted covering all regions in the Kingdom of Saudi Arabia using probability proportional to size. This study was used to estimate the prevalence of some of the risk factors of non-communicable diseases through interview, physical examination, and laboratory examination of blood samples of study participants.

## Sampling

A multistage stratified probability sample was developed to recruit the study participants while ensuring probability proportionate to size for each stratum. Stratification was based the 13 regions of the Kingdom (Al Riyadh; Makkah Al Moukarrama; Eastern Region; Northern Borders; Madinah; Jazan; Aseer; Najran; Qaseem; Tabuk; Hail ; Al-Jouf; Al-Baha).

The Census Bureau of the Kingdom of Saudi Arabia has divided the Kingdom into small clusters of households (averaging about 140 household in each cluster) and labeled them as enumeration units. These enumeration units serve as primary sampling units (PSU) for the survey. The number of households in each PSU depends upon the population size, density, and geographical spread of the area. Therefore, the congested cities have more households in a PSU as compared to more scattered rural areas.

A probability proportional to size sample of PSUs was randomly selected from each of 13 administrative regions. Fourteen households from each PSU (enumeration unit) were randomly selected and contacted. A total of 12,000 households were selected and contacted. A total of 10,827 completed the survey and were invited to the local health clinics. The remaining 1,173 completed part of the roster or all of it, but the selected adult did not complete the rest of the survey (Module 2). The sections in the survey that were administered at the household (Modules 1 and 2) had a 90% response rate (10,827/12,000). A total of 5,941 individuals went to the local clinics and provided blood samples for analyses. The section of the survey that was administered at the clinic (Module 4) had a response rate of 55% (5,941/10,827), or a final response rate of 49.5% (5,941/12,000). All survey weights were post-stratified to the general Saudi population and to the composition of the selected adults. Hence, the methodology adjusted for self-selection bias in the clinic part of the survey. Indeed, participants who went to the clinic were more likely to be older women with certain pre-conditions. Consequently, our weights accounted for this bias.

## Weighting methodology

As previously described, sampling was performed using the regions as strata and the primary sampling unit created by the census bureau in each region. There were 13 strata in total. Two sets of sample weights were generated and incorporated into the merged datasets for analysis. We define an individual's probability of selection as the total number of sampled individuals in his or her strata divided by the total number of households in that strata and the number of individuals eligible for selection in his or her household.

$$P_{\text{selection}} = \frac{N_{\text{individuals,sampled,strata}}}{N_{\text{households,total,strata}} N_{\text{individuals,total,household}}}$$

An individual's selection weight is defined as the inverse of the probability of selection.

$$w_{\text{person}} = \frac{1}{P_{\text{selection}}}$$

The selection weight is multiplied by a post-stratification factor to account for differences in the demographic distribution in our sample and the total population of Saudi Arabia. The post-stratified person-weight more fully incorporates information about the sample gleaned from the 2013 KSA census. The post-stratification factor is defined as the ratio of the percentage of individuals in that selected individual's age and sex group in the Saudi population to the percentage of individuals in that selected individual's age and sex group in our sample.

$$w_{\text{person,post-stratified}} = w_{\text{person}} \frac{\% \text{ pop}_{\text{Saudi,age,sex}}}{\% \text{ pop}_{\text{sample,age,sex}}}$$

This post-stratified person-weight is used when analyzing all data collected in the household.

For individuals who have completed Module 4, we computed an additional weight that should be used for all data collected in the laboratory. The non-post-stratified laboratory weight is defined as the ratio of the total number of sampled individuals in that individual's strata to the number of individuals in that individual's strata from whom laboratory data were collected and multiplied by the individual's selection weight computed above.

$$w_{lab} = \frac{N_{\text{individuals,sampled,strata}}}{N_{\text{individuals,Mod 4,strata}}} w_{\text{person}}$$

The individual's non-post-stratified laboratory weight is multiplied by a post-stratification factor using a predicted probability derived from a logistic regression on an individual's age group, sex, diabetes status, self-reported health, recent health clinic visits, and smoking status. An additional demographic post-stratification factor is applied to account for differences in the demographic characteristics of individuals completing Module 4 and the Saudi population. Finally, we apply a factor **F** to adjust the post-stratified lab weight to represent the sample estimated population of individuals 15 years of age and older in Saudi as predicted using a weighted tabulation of our post-stratified person-weight.

$$w_{lab,post-stratified} = w_{lab} p_{\text{logistic}} F \frac{\% \text{ pop}_{\text{householdSamplevariables}}}{\% \text{ pop}_{\text{Mod 4,variables}}}$$

This weight was used for all the data collected at the clinics.

## Results

SHIS is a cross-sectional study covering all 13 regions of KSA that uses a multi-staged representative sample of adults 15 years and older. This study estimates the prevalence of non-communicable diseases and its risk factors in the Kingdom. The following is a brief summary of the key findings of our study.

The prevalence of obesity in Saudi Arabia ranged from 13.6% in young adults aged 15-24 to 48% in adults aged 55-64. 24.1 % of males and 33.5% of females have a body mass index (BMI) above 30 kg/m<sup>2</sup>. 33.4% of males and 28.0% of females are overweight, with a BMI between 25 kg/m<sup>2</sup> and 30 kg/m<sup>2</sup>.

The prevalence of hypertension also increased across age groups from 3.4% among those aged 15-24 to 48.4% among those aged 55 to 64 and 65.2% among those aged 65 and older. Borderline hypertension was noted in 46.5% (3.0 million) of males and 34.3% (2.1 million) of females. About 1.1 million Saudi men and 0.8 million Saudi women are hypertensive, with 0.5 million men and 0.4 million women who have been diagnosed with hypertension. 0.4 million men and 0.3 million women are on medication for hypertension; however, 0.2 million men and 0.2 million women have uncontrolled elevated blood pressure.

The prevalence of hypercholesterolemia increased with age and ranged from 5.7% among those aged 25-34 to 28.7% among those aged 65 and older. 19.5% (1.3 million) of males and 20.6% (1.2 million) of females have borderline hypercholesterolemia. About 0.7 million Saudi men and 0.5 million Saudi women are hypercholesterolemic, with 0.4 million men and 0.3 million women diagnosed with hypercholesterolemia. 0.2 million men and 0.1 million women are on medication for hypercholesterolemia; however, only 7.44% of hypercholesterolemic men and women who are treated have uncontrolled elevated blood cholesterol.

The prevalence of diabetes increased with age and ranged from 7.8% among those aged 25-34 to 50.4% among those aged 65 and older. Borderline diabetes was present in 17.0% (1.2 million) of males and 15.5% (1 million) of females. 1.0 million Saudi men and 0.7 million Saudi women are diabetic, with approximately 0.6 million men and 0.5 million women diagnosed with diabetes. 0.5 million men and 0.3 million women are on medication for their diabetes; however, about 0.2 million of those men and 0.2 million of those women have uncontrolled



diabetes. Moreover, 4.5% of men and 3.5% of females in KSA have asthma, whereas only 0.1% of men and 0.4% of females have reported to have cancer.

The findings of SHIS call for more efforts to prevent the chronic disease risk factors. Programs to improve diet, reduce smoking, and increase physical activity are urgently needed. The high rates of diabetes, high blood pressure, and high cholesterol levels in a young population are alarming. These rates will continue to increase as the Saudi population is aging. Moreover, the high prevalence of borderline and undiagnosed conditions as well as the lack of compliance with medical treatment call for campaigns of early detection and health education. Awareness campaigns need to highlight the importance of compliance with medication, the impact of shisha and smoking on health, and the interrelated risks of total caloric intake and physical activity with obesity.

The MOH is about to launch a health census that will provide a comprehensive picture of the burden of disease in the Kingdom. This includes assessing the prevalence of communicable and non-communicable diseases as well as injuries among populations in Saudi. The results of the census will be essential for implementing effective health policies that aim to create a better health system in the Kingdom that is based on prevention and early detection. The census will also give accurate information related to access to health care by facility by region, which is crucial in building a stronger and more efficient health system.

### **Why are SHIS findings different from those previously reported by other studies?**

SHIS was based on a nationally representative household sample designed to produce national and regional estimates. All interviewers and supervisors used a standardized methodology for households' selection and data collection. All laboratory work was done in a standardized approach at a central location. SHIS used computer-assisted personal interviewing (CAPI) to improve the quality and the timeliness of data. The computer software used in data collection (DatStat) included range and consistency checks for all variables, hence eliminating interviewers' errors. Moreover, the software picked the eligible household member at random from a roster, hence eliminating selection bias at the household.

Finally, SHIS applied an advanced statistical approach in post-collection management of the data. The final weights used for individuals were based on the probability of selection and a post-stratification factor to ensure a representative sample of the Kingdom. More importantly, SHIS adjusted for self-selection bias among those who went to the clinic and those who did not. In health studies, sick persons or those who are not feeling well are more likely to accept physical exams and undergo blood analyses (refer to the table below). SHIS weights adjusted for this bias and applied an approach to correct the estimates to be representative of the general population and not of those who decided to go to the clinics.

Table: Clinical visit participation bias

| Factors                           | Categories             | Participated in the lab exam |              | Bivariate analysis |         | Multivariate analysis |                  |
|-----------------------------------|------------------------|------------------------------|--------------|--------------------|---------|-----------------------|------------------|
|                                   |                        | No (row %)                   | Yes (row %)  | Chi <sup>2</sup>   | P value | Adjusted OR           | 95% CI           |
| Gender                            | Males                  | 3,085 (58.2)                 | 2,211 (41.8) | 15.6               | < 0.001 | Reference             |                  |
|                                   | Females                | 3,010 (54.5)                 | 2,515 (45.5) |                    |         | <b>1.2</b>            | <b>1.1 – 1.3</b> |
| Age                               | 15 – 24                | 1,406 (59.0)                 | 976 (41.0)   | 76.8               | < 0.001 | Reference             |                  |
|                                   | 25 – 34                | 1,672 (60.6)                 | 1,085 (39.4) |                    |         | 0.9                   | 0.8 – 1.0        |
|                                   | 35 – 44                | 1,314 (56.2)                 | 1,025 (43.8) |                    |         | 1.05                  | 0.9 – 1.2        |
|                                   | 45 – 54                | 774 (50.9)                   | 746 (49.1)   |                    |         | <b>1.2</b>            | <b>1.1 – 1.4</b> |
|                                   | 55 – 64                | 455 (52.8)                   | 407 (47.2)   |                    |         | 1.2                   | 1.0 – 1.4        |
|                                   | 65 – 74                | 249 (45.9)                   | 293 (54.1)   |                    |         | <b>1.6</b>            | <b>1.3 – 2.0</b> |
|                                   | 75+                    | 173 (51.9)                   | 160 (48.1)   |                    |         | 1.2                   | 1.0 – 1.6        |
| Routine medical check-up          | Never                  | 4,468 (56.8)                 | 3,401 (43.2) | 7.6                | 0.05    | Reference             |                  |
|                                   | Within 2013            | 997 (54.4)                   | 837 (45.6)   |                    |         |                       |                  |
|                                   | within 2012            | 391 (54.0)                   | 333 (46.0)   |                    |         |                       |                  |
|                                   | 2005 – 2011            | 241 (60.2)                   | 159 (39.8)   |                    |         |                       |                  |
| Fruits and vegetables consumption | < 5 servings per day   | 5,592 (56.30)                | 4,337 (43.7) | 0.02               | 0.9     | Reference             |                  |
|                                   | 5+ servings per day    | 343 (56.4)                   | 265 (43.6)   |                    |         |                       |                  |
| Current smoking status            | Non-smoker             | 5,189 (54.8)                 | 4,272 (45.2) | 65.6               | < 0.001 | Reference             |                  |
|                                   | Smoker                 | 908 (66.5)                   | 458 (33.5)   |                    |         |                       |                  |
| BMI kg/m <sup>2</sup>             | < 25                   | 2,070 (59.7)                 | 1,398 (40.3) | 67.7               | < 0.001 | Reference             |                  |
|                                   | 25.00–29.99            | 1,195 (57.5)                 | 1,477 (42.5) |                    |         | 1.1                   | 0.9 – 1.2        |
|                                   | 30.00–34.99            | 1,577 (51.5)                 | 1,482 (48.5) |                    |         | <b>1.3</b>            | <b>1.1 – 1.4</b> |
|                                   | ≥ 35                   | 185 (44.8)                   | 228 (55.2)   |                    |         | <b>1.7</b>            | <b>1.3 – 2.1</b> |
| Self-rated health                 | Excellent or very good | 4,626 (58.7)                 | 3,249 (41.3) | 73.1               | < 0.001 | Reference             |                  |
|                                   | Good                   | 1,026 (50.5)                 | 1,004 (49.5) |                    |         |                       |                  |
|                                   | Fair or poor           | 420 (47.7)                   | 461 (52.3)   |                    |         |                       |                  |
| Asthma                            | No                     | 5,880 (56.5)                 | 4,532 (43.5) | 4.6                | 0.03    | Reference             |                  |
|                                   | Yes                    | 200 (51.0)                   | 192 (49.0)   |                    |         |                       |                  |
| COPD                              | No                     | 6,066 (56.3)                 | 4,709 (43.7) | 0.7                | 0.4     | Reference             |                  |
|                                   | Yes                    | 14 (48.3)                    | 15 (51.7)    |                    |         |                       |                  |
| Pre-diabetes                      | No                     | 5,996 (56.6)                 | 4,603 (43.4) | 20.5               | < 0.001 | Reference             |                  |
|                                   | Yes                    | 83 (40.7)                    | 121 (59.3)   |                    |         | <b>1.7</b>            | <b>1.2 – 2.2</b> |
| Diabetes                          | No                     | 5,415 (57.3)                 | 4,027 (42.7) | 31.4               | < 0.001 | Reference             |                  |
|                                   | Yes                    | 616 (49.0)                   | 641 (51.0)   |                    |         |                       |                  |
| Blood pressure                    | No                     | 5,518 (57.0)                 | 4,161 (43.0) | 21.9               | < 0.001 | Reference             |                  |
|                                   | Yes                    | 511 (49.4)                   | 523 (50.6)   |                    |         |                       |                  |
| Cholesterol                       | No                     | 5,574 (57.0)                 | 4,206 (43.0) | 16.3               | < 0.001 | Reference             |                  |
|                                   | Yes                    | 379 (49.5)                   | 387 (50.5)   |                    |         |                       |                  |
| Total                             |                        | 6,097 (56.3)                 | 4,730 (43.7) |                    |         |                       |                  |

## Selected SHIS findings:

**Table 1: Age and sex distribution**

| Age     | Men  |            |      | Women |            |      | Total |            |      |
|---------|------|------------|------|-------|------------|------|-------|------------|------|
|         | N    | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 1189 | 51.3       | 1.32 | 1193  | 48.7       | 1.32 | 2382  | 100        | 0.72 |
| 25 - 34 | 1254 | 51.1       | 1.30 | 1503  | 48.9       | 1.30 | 2757  | 100        | 0.51 |
| 35 - 44 | 1132 | 45.4       | 1.35 | 1207  | 54.6       | 1.35 | 2339  | 100        | 0.4  |
| 45 - 54 | 722  | 49.0       | 1.66 | 798   | 51.0       | 1.66 | 1520  | 100        | 0.39 |
| 55 - 64 | 439  | 55.4       | 2.30 | 423   | 44.6       | 2.30 | 862   | 100        | 0.29 |
| 65+     | 517  | 59.1       | 2.32 | 358   | 40.9       | 2.32 | 875   | 100        | 0.19 |
| Total   | 5253 | 50.6       | 0.69 | 5482  | 49.4       | 0.69 | 10735 | 100        |      |

**Table 2: Level of education, men**

| Age     | Can't read or write |                 | Can read and write |                 | Primary school completed |                 | Intermediate school completed |                 | Completed school or high school |                 | College/university completed |                 | Post-graduate degree |                 |
|---------|---------------------|-----------------|--------------------|-----------------|--------------------------|-----------------|-------------------------------|-----------------|---------------------------------|-----------------|------------------------------|-----------------|----------------------|-----------------|
|         | N                   | Weighted % (SE) | N                  | Weighted % (SE) | N                        | Weighted % (SE) | N                             | Weighted % (SE) | N                               | Weighted % (SE) | N                            | Weighted % (SE) | N                    | Weighted % (SE) |
| 15 - 24 | 2                   | 0.2 (0.13)      | 25                 | 3.5 (0.75)      | 126                      | 10.8 (1.10)     | 428                           | 35.4 (1.77)     | 528                             | 42.4 (1.84)     | 79                           | 7.7 (1.03)      | 0                    | N/A(N/A)        |
| 25 - 34 | 9                   | 0.8 (0.29)      | 13                 | 1.4 (0.47)      | 63                       | 5.0 (0.73)      | 140                           | 11.2 (1.20)     | 526                             | 43.1 (1.89)     | 481                          | 37.0 (1.79)     | 21                   | 1.6(0.42)       |
| 35 - 44 | 17                  | 2 (0.63)        | 30                 | 2.5 (0.55)      | 89                       | 8.9 (1.13)      | 152                           | 13.2 (1.36)     | 419                             | 38.2 (1.89)     | 381                          | 31.5 (1.78)     | 42                   | 3.7(0.67)       |
| 45 - 54 | 29                  | 3.1 (0.76)      | 52                 | 8.0 (1.33)      | 114                      | 16.7 (1.87)     | 139                           | 18.5 (1.86)     | 208                             | 30.0 (2.20)     | 152                          | 19.1 (1.78)     | 25                   | 4.6(1.03)       |
| 55 - 64 | 74                  | 17.3 (2.51)     | 60                 | 12.5 (2.09)     | 97                       | 23.3 (2.71)     | 70                            | 17 (2.35)       | 64                              | 15.3 (2.33)     | 63                           | 12.6 (1.83)     | 10                   | 2.0(0.79)       |
| 65+     | 231                 | 43.0 (2.97)     | 92                 | 16.5 (2.09)     | 94                       | 21.1 (2.54)     | 42                            | 8.3 (1.62)      | 29                              | 6.3 (1.49)      | 23                           | 4.0 (0.95)      | 5                    | 0.7(0.30)       |
| Total   | 362                 | 4.2 (0.31)      | 272                | 4.7 (0.41)      | 583                      | 11.3 (0.60)     | 971                           | 22.5 (0.87)     | 1774                            | 36.8 (0.96)     | 1179                         | 18.8 (0.70)     | 103                  | 1.6(0.19)       |

**Table 3: Level of education, women**

| Age     | Can't read or write |                 | Can read and write |                 | Primary school completed |                 | Intermediate school completed |                 | Completed school or high school |                 | College/university completed |                 | Post-graduate degree |                 |
|---------|---------------------|-----------------|--------------------|-----------------|--------------------------|-----------------|-------------------------------|-----------------|---------------------------------|-----------------|------------------------------|-----------------|----------------------|-----------------|
|         | N                   | Weighted % (SE) | N                  | Weighted % (SE) | N                        | Weighted % (SE) | N                             | Weighted % (SE) | N                               | Weighted % (SE) | N                            | Weighted % (SE) | N                    | Weighted % (SE) |
| 15 - 24 | 16                  | 1.1 (0.39)      | 41                 | 4.3 (0.79)      | 118                      | 9.5 (1.11)      | 346                           | 27.5 (1.67)     | 481                             | 41.5 (1.86)     | 187                          | 16.0 (1.38)     | 2                    | 0.1 (0.05)      |
| 25 - 34 | 51                  | 3.3 (0.65)      | 71                 | 4.7 (0.70)      | 135                      | 8.5 (1.04)      | 171                           | 11.3 (1.09)     | 486                             | 31.5 (1.65)     | 563                          | 39.2 (1.77)     | 21                   | 1.5 (0.38)      |
| 35 - 44 | 140                 | 11.3 (1.22)     | 107                | 10.2 (1.24)     | 142                      | 14.8 (1.48)     | 172                           | 15.4 (1.42)     | 251                             | 20.2 (1.46)     | 373                          | 26.8 (1.62)     | 21                   | 1.3 (0.32)      |
| 45 - 54 | 297                 | 34.9 (2.18)     | 124                | 17.4 (1.89)     | 109                      | 14.2 (1.64)     | 83                            | 11.7 (1.54)     | 90                              | 11.0 (1.31)     | 86                           | 9.6 (1.25)      | 8                    | 1.3 (0.55)      |
| 55 - 64 | 283                 | 66.4 (3.12)     | 60                 | 15.4 (2.53)     | 28                       | 6.0 (1.29)      | 22                            | 6.1 (1.52)      | 17                              | 3.5 (1.01)      | 10                           | 2.3 (0.87)      | 2                    | 0.3 (0.24)      |
| 65+     | 322                 | 89.5 (2.01)     | 19                 | 5.6 (1.53)      | 6                        | 1.5 (0.64)      | 4                             | 1.4 (0.80)      | 4                               | 1.5 (0.87)      | 1                            | 0.1 (0.13)      | 1                    | 0.3 (0.29)      |
| Total   | 1109                | 14.5 (0.59)     | 422                | 7.8 (0.51)      | 538                      | 10.3 (0.60)     | 798                           | 17.9 (0.79)     | 1329                            | 28.3 (0.92)     | 1220                         | 20.5 (0.77)     | 55                   | 0.8 (0.12)      |

**Table 4: Total household income, men**

| Age     | Less than 3,000 riyal |                 | 3,000 to less than 5,000 riyal |                 | 5,000 to less than 7,000 riyal |                 | 7,000 to less than 10,000 riyal |                 | 10,000 to less than 15,000 riyal |                 | 15,000 riyal or more |                 |
|---------|-----------------------|-----------------|--------------------------------|-----------------|--------------------------------|-----------------|---------------------------------|-----------------|----------------------------------|-----------------|----------------------|-----------------|
|         | N                     | Weighted % (SE) | N                              | Weighted % (SE) | N                              | Weighted % (SE) | N                               | Weighted % (SE) | N                                | Weighted % (SE) | N                    | Weighted % (SE) |
| 15 - 24 | 187                   | 20.2(1.75)      | 183                            | 19.5(1.72)      | 134                            | 13.0(1.45)      | 160                             | 19.3(1.77)      | 122                              | 15.1(1.61)      | 95                   | 12.9(1.48)      |
| 25 - 34 | 118                   | 10.5(1.18)      | 198                            | 18.5(1.58)      | 231                            | 19.7(1.58)      | 304                             | 24.8(1.68)      | 171                              | 13.5(1.27)      | 132                  | 13.0(1.32)      |
| 35 - 44 | 74                    | 6.6(0.97)       | 122                            | 11.0(1.20)      | 171                            | 14.6(1.40)      | 222                             | 20.7(1.67)      | 284                              | 27.1(1.82)      | 180                  | 20.0(1.65)      |
| 45 - 54 | 47                    | 7.3(1.38)       | 112                            | 16.2(1.87)      | 95                             | 13.4(1.62)      | 130                             | 19.2(1.97)      | 131                              | 19.9(1.99)      | 147                  | 23.9(2.14)      |
| 55 - 64 | 65                    | 17.8(2.72)      | 104                            | 27.9(3.02)      | 62                             | 15.0(2.24)      | 49                              | 12.4(2.25)      | 51                               | 11.3(1.96)      | 62                   | 15.6(2.28)      |
| 65+     | 158                   | 30.5(2.84)      | 110                            | 29.2(3.09)      | 62                             | 15.8(2.47)      | 42                              | 9.2(1.80)       | 48                               | 8.9(1.54)       | 32                   | 6.5(1.64)       |
| Total   | 649                   | 14.4(0.76)      | 829                            | 18.7(0.83)      | 755                            | 15.2(0.74)      | 907                             | 19.7(0.84)      | 807                              | 16.5(0.77)      | 648                  | 15.3(0.74)      |

**Table 5: Household income level, women**

| Age     | Less than 3,000 riyal |                 | 3,000 to less than 5,000 riyal |                 | 5,000 to less than 7,000 riyal |                 | 7,000 to less than 10,000 riyal |                 | 10,000 to less than 15,000 riyal |                 | 15,000 riyal or more |                 |
|---------|-----------------------|-----------------|--------------------------------|-----------------|--------------------------------|-----------------|---------------------------------|-----------------|----------------------------------|-----------------|----------------------|-----------------|
|         | N                     | Weighted % (SE) | N                              | Weighted % (SE) | N                              | Weighted % (SE) | N                               | Weighted % (SE) | N                                | Weighted % (SE) | N                    | Weighted % (SE) |
| 15 - 24 | 173                   | 21.7(1.91)      | 187                            | 23.2(1.92)      | 135                            | 13.5(1.49)      | 161                             | 17.0(1.63)      | 122                              | 13.2(1.45)      | 86                   | 11.3(1.38)      |
| 25 - 34 | 162                   | 15.3(1.53)      | 220                            | 20.2(1.71)      | 221                            | 14.1(1.22)      | 307                             | 25.2(1.67)      | 179                              | 13.8(1.34)      | 121                  | 11.3(1.32)      |
| 35 - 44 | 125                   | 14.1(1.58)      | 171                            | 19.0(1.76)      | 175                            | 16.2(1.55)      | 161                             | 16.5(1.62)      | 179                              | 19.1(1.68)      | 147                  | 15.2(1.50)      |
| 45 - 54 | 127                   | 22.0(2.40)      | 130                            | 19.4(2.01)      | 96                             | 12.9(1.57)      | 89                              | 15.0(1.81)      | 88                               | 14.4(1.78)      | 88                   | 16.3(2.01)      |
| 55 - 64 | 122                   | 31.1(3.47)      | 54                             | 22.1(3.72)      | 46                             | 15.6(2.80)      | 35                              | 12.6(2.94)      | 34                               | 10.2(2.09)      | 30                   | 8.3(1.79)       |
| 65+     | 174                   | 57.1(4.13)      | 38                             | 13.1(2.39)      | 21                             | 11.9(2.98)      | 20                              | 9.0(2.64)       | 11                               | 4.9(1.85)       | 11                   | 4.0(1.39)       |
| Total   | 883                   | 20.7(0.93)      | 800                            | 20.9(0.94)      | 694                            | 14.1(0.74)      | 773                             | 18.0(0.83)      | 613                              | 14.1(0.74)      | 483                  | 12.2(0.71)      |

**Table 6: Smoking status, men**

| Age     | Never |            |      | Ex  |            |      | Current daily |            |      | Current non-daily |            |      |
|---------|-------|------------|------|-----|------------|------|---------------|------------|------|-------------------|------------|------|
|         | N     | Weighted % | SE   | N   | Weighted % | SE   | N             | Weighted % | SE   | N                 | Weighted % | SE   |
| 15 - 24 | 943   | 81.2       | 1.46 | 42  | 2.7        | 0.55 | 191           | 14.9       | 1.33 | 11                | 1.2        | 0.48 |
| 25 - 34 | 771   | 62.0       | 1.83 | 83  | 7.6        | 1.01 | 374           | 29.0       | 1.72 | 19                | 1.4        | 0.38 |
| 35 - 44 | 688   | 60.5       | 1.92 | 105 | 8.8        | 1.08 | 321           | 29.6       | 1.82 | 14                | 1.1        | 0.37 |
| 45 - 54 | 455   | 63.5       | 2.34 | 66  | 10.0       | 1.51 | 188           | 25.7       | 2.13 | 8                 | 0.8        | 0.36 |
| 55 - 64 | 279   | 61.8       | 3.09 | 66  | 13.5       | 1.95 | 89            | 23.1       | 2.82 | 5                 | 1.6        | 0.82 |
| 65+     | 406   | 74.7       | 3.80 | 67  | 15.5       | 2.32 | 37            | 9.1        | 2.00 | 3                 | 0.7        | 0.42 |
| Total   | 3,542 | 70.5       | 0.87 | 429 | 6.8        | 0.44 | 1,200         | 21.5       | 0.79 | 60                | 1.2        | 0.23 |

**Table 7: Smoking status, women**

| Age     | Never |            |      | Ex |            |      | Current daily |            |      | Current non-daily |            |      |
|---------|-------|------------|------|----|------------|------|---------------|------------|------|-------------------|------------|------|
|         | N     | Weighted % | SE   | N  | Weighted % | SE   | N             | Weighted % | SE   | N                 | Weighted % | SE   |
| 15 - 24 | 1,169 | 98.5       | 0.48 | 8  | 0.7        | 0.35 | 5             | 0.5        | 0.31 | 6                 | 0.3        | 0.11 |
| 25 - 34 | 1,475 | 98.5       | 0.37 | 6  | 0.4        | 0.17 | 11            | 0.5        | 0.17 | 6                 | 0.6        | 0.29 |
| 35 - 44 | 1,178 | 98.0       | 0.45 | 6  | 0.7        | 0.28 | 14            | 0.7        | 0.21 | 6                 | 0.6        | 0.29 |
| 45 - 54 | 771   | 96.5       | 0.84 | 2  | 0.5        | 0.50 | 24            | 2.9        | 0.69 | 1                 | 0.1        | 0.08 |
| 55 - 64 | 404   | 95.1       | 1.87 | 4  | 0.7        | 0.46 | 15            | 4.2        | 1.82 | 0                 | N/A        | N/A  |
| 65+     | 347   | 98.0       | 0.81 | 3  | 0.3        | 0.19 | 8             | 1.7        | 0.79 | 0                 | N/A        | N/A  |
| Total   | 5,344 | 97.9       | 0.27 | 29 | 0.6        | 0.17 | 77            | 1.1        | 0.20 | 19                | 0.4        | 0.09 |

**Table 8: Smokeless tobacco use**

|         | Men |            |      | Women |            |      | Total |            |      |
|---------|-----|------------|------|-------|------------|------|-------|------------|------|
| Age     | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 19  | 1.1        | 0.33 | 0     | N/A        | N/A  | 19    | 0.6        | 0.17 |
| 25 - 34 | 33  | 1.6        | 0.37 | 4     | 0.4        | 0.37 | 37    | 1.1        | 0.26 |
| 35 - 44 | 28  | 2.0        | 0.54 | 1     | 0          | 0.02 | 29    | 0.9        | 0.25 |
| 45 - 54 | 14  | 1.8        | 0.66 | 2     | 0.6        | 0.53 | 16    | 1.2        | 0.42 |
| 55 - 64 | 13  | 1.9        | 0.67 | 2     | 0.5        | 0.37 | 15    | 1.3        | 0.41 |
| 65+     | 9   | 1.6        | 0.71 | 5     | 1.8        | 1.09 | 14    | 1.7        | 0.62 |
| Total   | 116 | 1.5        | 0.20 | 14    | 0.3        | 0.11 | 130   | 0.9        | 0.12 |

**Table 9: Mean age of smoking initiation**

|         |     | Men   |               |              | Women |              |              | Total |              |              |
|---------|-----|-------|---------------|--------------|-------|--------------|--------------|-------|--------------|--------------|
| Age     | N   | Mean  | Lower 95 % CI | Upper 95% CI | Mean  | Lower 95% CI | Upper 95% CI | Mean  | Lower 95% CI | Upper 95% CI |
| 15 - 24 | 244 | 16.24 | 15.7          | 16.7         | 17.76 | 16.7         | 18.7         | 16.35 | 15.9         | 16.8         |
| 25 - 34 | 478 | 18.67 | 18.2          | 19           | 18.43 | 14.3         | 22.5         | 18.66 | 18.2         | 19.0         |
| 35 - 44 | 441 | 19.8  | 19.3          | 20.3         | 25.71 | 22.5         | 28.9         | 20.09 | 19.5         | 20.6         |
| 45 - 54 | 263 | 20.66 | 19.8          | 21.4         | 23.31 | 17.5         | 29           | 20.86 | 20.0         | 21.7         |
| 55 - 64 | 160 | 20.61 | 19.6          | 21.5         | 18.5  | 12.2         | 24.7         | 20.43 | 19.4         | 21.4         |
| 65+     | 107 | 22.37 | 20.7          | 24           | 22.5  | 14.3         | 30.6         | 22.38 | 20.8         | 24.0         |



**Table 10: Mean years of smoking**

| Age     | Men |      |              |              | Women |      |              |              | Total |      |              |              |
|---------|-----|------|--------------|--------------|-------|------|--------------|--------------|-------|------|--------------|--------------|
|         | N   | Mean | Lower 95% CI | Upper 95% CI | N     | Mean | Lower 95% CI | Upper 95% CI | N     | Mean | Lower 95% CI | Upper 95% CI |
| 15 - 24 | 244 | 4.6  | 4.12         | 5.06         | 20    | 3.1  | 1.9          | 4.2          | 264   | 4.5  | 4.0          | 4.9          |
| 25 - 34 | 478 | 11.4 | 10.9         | 11.84        | 24    | 11.2 | 6.5          | 15.8         | 502   | 11.4 | 10.9         | 11.8         |
| 35 - 44 | 441 | 19.4 | 18.9         | 20.03        | 26    | 13.6 | 10.2         | 16.9         | 467   | 19.2 | 18.6         | 19.8         |
| 45 - 54 | 263 | 28.5 | 27.6         | 29.47        | 27    | 25.7 | 20.2         | 31.2         | 290   | 28.3 | 27.4         | 29.3         |
| 55 - 64 | 160 | 37.7 | 36.68        | 38.83        | 19    | 40.2 | 33.5         | 46.9         | 179   | 38   | 36.9         | 39.1         |
| 65+     | 107 | 49.6 | 47.34        | 51.82        | 11    | 47.5 | 37.4         | 57.6         | 118   | 49.4 | 47.3         | 51.6         |

**Table 11: Consumption of manufactured cigarettes**

| Age     | Men   |            |      | Women |            |      | Total |            |      |
|---------|-------|------------|------|-------|------------|------|-------|------------|------|
|         | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 195   | 15.6       | 1.38 | 10    | 0.7        | 0.33 | 205   | 8.3        | 0.75 |
| 25 - 34 | 367   | 28.7       | 1.72 | 13    | 0.8        | 0.22 | 380   | 14.9       | 0.95 |
| 35 - 44 | 312   | 28.7       | 1.82 | 8     | 0.6        | 0.25 | 320   | 13.2       | 0.92 |
| 45 - 54 | 188   | 25.4       | 2.12 | 20    | 2.4        | 0.63 | 208   | 13.6       | 1.16 |
| 55 - 64 | 89    | 23.2       | 2.82 | 7     | 3.3        | 1.81 | 96    | 14.3       | 1.81 |
| 65+     | 38    | 9.3        | 2.00 | 7     | 1.6        | 0.76 | 45    | 6.1        | 1.24 |
| Total   | 1,189 | 21.6       | 0.80 | 65    | 1.1        | 0.20 | 1,254 | 11.4       | 0.44 |

**Table 12: Consumption of shisha**

| Age     | Men   |            |      | Women |            |      | Total |            |      |
|---------|-------|------------|------|-------|------------|------|-------|------------|------|
|         | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 191   | 14.7       | 1.33 | 10    | 0.7        | 0.33 | 201   | 7.9        | 0.73 |
| 25 - 34 | 365   | 27.9       | 1.69 | 16    | 1.1        | 0.32 | 381   | 14.8       | 0.95 |
| 35 - 44 | 314   | 28.1       | 1.78 | 17    | 1.1        | 0.32 | 331   | 13.3       | 0.91 |
| 45 - 54 | 186   | 25.1       | 2.11 | 24    | 2.9        | 0.69 | 210   | 13.8       | 1.16 |
| 55 - 64 | 86    | 23.0       | 2.84 | 13    | 4.0        | 1.81 | 99    | 14.5       | 1.83 |
| 65+     | 35    | 8.5        | 1.88 | 8     | 1.8        | 0.79 | 43    | 5.8        | 1.18 |
| Total   | 1,177 | 20.9       | 0.78 | 88    | 1.4        | 0.21 | 1,265 | 11.3       | 0.43 |

**Table 13: Hours spent sitting per day, men**

|         | None |            |      | 0.5 - <2 |            |      | 2-<4  |            |      | 4-<6  |            |      | >6    |            |      |
|---------|------|------------|------|----------|------------|------|-------|------------|------|-------|------------|------|-------|------------|------|
| Age     | N    | Weighted % | SE   | N        | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 10   | 0.8        | 0.34 | 119      | 10.7       | 1.18 | 408   | 38.3       | 1.90 | 232   | 24.3       | 1.71 | 308   | 26.0       | 1.67 |
| 25 - 34 | 10   | 0.7        | 0.32 | 99       | 8.3        | 1.04 | 409   | 38.9       | 1.95 | 305   | 27.9       | 1.81 | 295   | 24.2       | 1.72 |
| 35 - 44 | 13   | 1.0        | 0.41 | 121      | 10.8       | 1.13 | 392   | 42.7       | 2.10 | 198   | 20.5       | 1.66 | 294   | 25.0       | 1.80 |
| 45 - 54 | 4    | 0.7        | 0.40 | 66       | 9.4        | 1.41 | 236   | 39.2       | 2.47 | 168   | 27.9       | 2.30 | 178   | 23.0       | 2.06 |
| 55 - 64 | 0    | N/A        | N/A  | 31       | 8.3        | 1.81 | 143   | 39.8       | 3.26 | 103   | 28.5       | 3.17 | 115   | 23.5       | 2.58 |
| 65+     | 4    | 1.0        | 0.54 | 30       | 9.7        | 2.30 | 111   | 29.6       | 3.00 | 114   | 28.0       | 2.92 | 171   | 32.0       | 2.93 |
| Total   | 41   | 0.8        | 0.17 | 466      | 9.8        | 0.6  | 1,699 | 38.8       | 1.01 | 1,120 | 25.5       | 0.91 | 1,361 | 25.1       | 0.88 |

**Table 14: Hours spent sitting per day, women**

|         | None |            |      | 0.5 - <2 |            |      | 2-<4  |            |      | 4-<6  |            |      | >6    |            |      |
|---------|------|------------|------|----------|------------|------|-------|------------|------|-------|------------|------|-------|------------|------|
| Age     | N    | Weighted % | SE   | N        | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 12   | 1.1        | 1.43 | 92       | 8.7        | 1.12 | 346   | 32.1       | 0.86 | 286   | 29.0       | 1.87 | 307   | 29.1       | 1.83 |
| 25 - 34 | 17   | 1.2        | 1.41 | 140      | 10.4       | 1.12 | 490   | 36.9       | 0.83 | 311   | 27.0       | 1.76 | 339   | 24.8       | 1.70 |
| 35 - 44 | 17   | 0.9        | 0.31 | 127      | 13.6       | 1.52 | 412   | 42.6       | 2.08 | 234   | 24.0       | 1.80 | 223   | 19.1       | 1.59 |
| 45 - 54 | 9    | 0.6        | 0.25 | 76       | 10.7       | 1.44 | 284   | 44.1       | 2.44 | 164   | 22.0       | 2.01 | 168   | 22.4       | 2.07 |
| 55 - 64 | 12   | 1.5        | 0.50 | 33       | 12.5       | 2.84 | 87    | 29.1       | 3.54 | 76    | 24.0       | 3.31 | 132   | 33.2       | 3.48 |
| 65+     | 6    | 1.0        | 0.46 | 16       | 5.7        | 1.98 | 52    | 17.9       | 3.03 | 75    | 33.0       | 3.99 | 141   | 42.7       | 4.07 |
| Total   | 73   | 1.0        | 0.21 | 484      | 10.2       | 0.62 | 1,671 | 35.8       | 1.00 | 1,146 | 26.6       | 0.96 | 1,310 | 26.3       | 0.94 |

**Table 15: Hours spent watching TV per day, men**

|          | None |            |      | 0.5 - 2 |            |      | 2 - 4 |            |      | 4- 6 |            |      | >6  |            |      |
|----------|------|------------|------|---------|------------|------|-------|------------|------|------|------------|------|-----|------------|------|
| Age      | N    | Weighted % | SE   | N       | Weighted % | SE   | N     | Weighted % | SE   | N    | Weighted % | SE   | N   | Weighted % | SE   |
| 15 - 24  | 30   | 3.1        | 0.74 | 134     | 15.4       | 1.58 | 380   | 42.6       | 2.10 | 199  | 23.7       | 1.85 | 138 | 15.1       | 1.55 |
| 25 - 34  | 28   | 2.8        | 0.65 | 135     | 13.6       | 1.49 | 411   | 47.1       | 2.21 | 196  | 19.9       | 1.71 | 142 | 16.7       | 1.67 |
| 35 - 44. | 42   | 5.5        | 1.02 | 169     | 17.9       | 1.67 | 347   | 40.6       | 2.15 | 167  | 21.6       | 1.91 | 125 | 14.5       | 1.70 |
| 45 - 54  | 34   | 6.3        | 1.36 | 153     | 25.9       | 2.33 | 227   | 42.1       | 2.63 | 87   | 16.2       | 2.10 | 74  | 9.6        | 1.44 |
| 55 - 64  | 35   | 9.5        | 2.34 | 104     | 30.9       | 3.22 | 122   | 33.1       | 3.23 | 49   | 14.6       | 2.54 | 49  | 11.8       | 2.23 |
| 65+      | 109  | 25.8       | 2.85 | 100     | 23.9       | 2.83 | 122   | 33.5       | 3.18 | 56   | 10.8       | 1.90 | 35  | 6.0        | 1.28 |
| Total    | 278  | 5.5        | 0.46 | 795     | 18.3       | 0.85 | 1,609 | 42.0       | 1.10 | 754  | 20.3       | 0.93 | 563 | 13.9       | 0.79 |

**Table 16: Hours spent watching TV per day, women**

|          | None |            |      | 0.5 - 2 |            |      | 2 - 4 |            |      | 4- 6 |            |      | >6  |            |      |
|----------|------|------------|------|---------|------------|------|-------|------------|------|------|------------|------|-----|------------|------|
| Age      | N    | Weighted % | SE   | N       | Weighted % | SE   | N     | Weighted % | SE   | N    | Weighted % | SE   | N   | Weighted % | SE   |
| 15 - 24  | 36   | 3.6        | 0.81 | 123     | 13.9       | 1.51 | 366   | 42.5       | 2.19 | 178  | 22.8       | 1.90 | 163 | 17.1       | 1.60 |
| 25 - 34  | 55   | 4.4        | 0.78 | 221     | 20.8       | 1.64 | 475   | 41.2       | 2.00 | 228  | 21.8       | 1.78 | 144 | 11.8       | 1.39 |
| 35 - 44. | 77   | 7.6        | 1.10 | 193     | 21.0       | 1.81 | 387   | 44.4       | 2.20 | 137  | 15.0       | 1.59 | 122 | 12.0       | 1.41 |
| 45 - 54  | 51   | 9.4        | 1.51 | 158     | 29.0       | 2.42 | 218   | 35.3       | 2.51 | 100  | 14.2       | 1.74 | 76  | 12.1       | 1.86 |
| 55 - 64  | 53   | 14.1       | 2.49 | 85      | 30.8       | 3.76 | 103   | 29.9       | 3.48 | 47   | 12.5       | 2.42 | 49  | 12.8       | 2.31 |
| 65+      | 85   | 26.8       | 3.58 | 54      | 17.9       | 3.24 | 80    | 30.9       | 3.72 | 37   | 13.4       | 3.10 | 40  | 10.9       | 2.69 |
| Total    | 357  | 6.7        | 0.50 | 834     | 19.7       | 0.87 | 1,629 | 40.4       | 1.11 | 727  | 19.2       | 0.93 | 594 | 14.0       | 0.79 |

**Table 17: Physical activity level\*, men**

| Age     | Not active |            |      | Low   |            |      | Moderate |            |      | High level |            |      |
|---------|------------|------------|------|-------|------------|------|----------|------------|------|------------|------------|------|
|         | N          | Weighted % | SE   | N     | Weighted % | SE   | N        | Weighted % | SE   | N          | Weighted % | SE   |
| 15 - 24 | 223        | 16.9       | 1.33 | 217   | 18.2       | 1.45 | 194      | 17.2       | 1.38 | 555        | 47.7       | 1.85 |
| 25 - 34 | 362        | 27.8       | 1.63 | 252   | 20.2       | 1.51 | 185      | 14.2       | 1.38 | 455        | 37.8       | 1.83 |
| 35 - 44 | 321        | 26.2       | 1.64 | 276   | 29.5       | 1.86 | 183      | 15.9       | 1.49 | 352        | 28.4       | 1.69 |
| 45 - 54 | 188        | 21.9       | 1.86 | 209   | 31.3       | 2.25 | 121      | 17.3       | 1.78 | 204        | 29.6       | 2.23 |
| 55 - 64 | 149        | 27.2       | 2.63 | 118   | 31.0       | 2.99 | 77       | 19.1       | 2.56 | 95         | 22.7       | 2.67 |
| 65+     | 232        | 37.9       | 2.82 | 128   | 27.1       | 2.71 | 65       | 12.2       | 1.94 | 92         | 22.8       | 2.65 |
| Total   | 1,475      | 22.9       | 0.76 | 1,200 | 23.1       | 0.81 | 825      | 16.2       | 0.73 | 1,753      | 37.8       | 0.97 |

\*A low level of physical activity is considered as a total of less than 150 minutes of moderate to intense activity per week. A moderate level of physical activity is considered as a total of 15–300 minutes of moderate to intense activity per week. A high level of physical activity is considered as a total of more than 450 minutes of moderate to intense activity per week.

**Table 18: Activity level\*, women**

| Age     | Not active |            |      | Low   |            |      | Moderate |            |      | High Level |            |      |
|---------|------------|------------|------|-------|------------|------|----------|------------|------|------------|------------|------|
|         | N          | Weighted % | SE   | N     | Weighted % | SE   | N        | Weighted % | SE   | N          | Weighted % | SE   |
| 15 - 24 | 520        | 41.6       | 1.84 | 339   | 30.9       | 1.78 | 143      | 11.1       | 1.15 | 191        | 16.5       | 1.39 |
| 25 - 34 | 730        | 45.1       | 1.76 | 382   | 27.6       | 1.65 | 137      | 9.1        | 1.08 | 254        | 18.2       | 1.45 |
| 35 - 44 | 627        | 48.1       | 1.90 | 297   | 28         | 1.75 | 111      | 8.6        | 1.10 | 172        | 15.3       | 1.44 |
| 45 - 54 | 418        | 51.6       | 2.31 | 204   | 26.4       | 2.04 | 81       | 9.4        | 1.28 | 95         | 12.5       | 1.54 |
| 55 - 64 | 247        | 54.2       | 3.44 | 96    | 28.3       | 3.28 | 31       | 4.9        | 1.00 | 49         | 12.6       | 2.38 |
| 65+     | 257        | 70.6       | 3.69 | 56    | 20.7       | 3.62 | 23       | 4.2        | 1.21 | 22         | 4.5        | 1.21 |
| Total   | 2,799      | 46.5       | 0.97 | 1,374 | 28.6       | 0.91 | 526      | 9.4        | 0.57 | 783        | 15.5       | 0.72 |

\*A low level of physical activity is considered as a total of less than 150 minutes of moderate to intense activity per week. A moderate level of physical activity is considered as a total of 15–300 minutes of moderate to intense activity per week. A high level of physical activity is considered as a total of more than 450 minutes of moderate to intense activity per week.

**Table 19: Body mass index (BMI)\*, men**

|         | < 18.5 kg/m <sup>2</sup> |            |      | 18.5 – 25.0 kg/m <sup>2</sup> |            |      | 25.0 – 30.0kg/m <sup>2</sup> |            |      | 30.0 - 40.0 kg/m <sup>2</sup> |            |      | > 40 kg/m <sup>2</sup> |            |      |
|---------|--------------------------|------------|------|-------------------------------|------------|------|------------------------------|------------|------|-------------------------------|------------|------|------------------------|------------|------|
| Age     | N                        | Weighted % | SE   | N                             | Weighted % | SE   | N                            | Weighted % | SE   | N                             | Weighted % | SE   | N                      | Weighted % | SE   |
| 15 - 24 | 164                      | 14.4       | 1.32 | 544                           | 47.4       | 1.89 | 284                          | 24.9       | 1.56 | 131                           | 11.3       | 1.23 | 26                     | 2.1        | 0.52 |
| 25 - 34 | 41                       | 3.6        | 0.85 | 376                           | 32.1       | 1.80 | 479                          | 39.4       | 1.85 | 286                           | 21.9       | 1.54 | 40                     | 3.1        | 0.69 |
| 35 - 44 | 9                        | 1.0        | 0.39 | 252                           | 23.7       | 1.75 | 439                          | 37.9       | 1.90 | 352                           | 33.1       | 1.86 | 47                     | 4.3        | 0.81 |
| 45 - 54 | 8                        | 1.9        | 0.78 | 160                           | 21.6       | 1.94 | 275                          | 40.6       | 2.41 | 232                           | 34.6       | 2.36 | 13                     | 1.3        | 0.46 |
| 55 - 64 | 3                        | 0.6        | 0.39 | 101                           | 24.0       | 2.80 | 175                          | 39.5       | 3.07 | 136                           | 33.3       | 3.05 | 13                     | 2.6        | 0.90 |
| 65+     | 13                       | 2.0        | 0.72 | 152                           | 31.9       | 2.90 | 196                          | 38.3       | 2.94 | 136                           | 26.4       | 2.62 | 5                      | 1.4        | 0.74 |
| Total   | 238                      | 7.1        | 0.59 | 1,585                         | 35.4       | 0.98 | 1,848                        | 33.4       | 0.91 | 1,273                         | 21.6       | 0.78 | 144                    | 2.5        | 0.30 |

\*BMI is calculated as the person's weight in kilograms divided by their squared height in meters.

**Table 20: Body mass index (BMI)\*, women**

|         | < 18.5 kg/m <sup>2</sup> |            |      | 18.5 – 25.0 kg/m <sup>2</sup> |            |      | 25.0 – 30.0 kg/m <sup>2</sup> |            |      | 30.0 - 40.0 kg/m <sup>2</sup> |            |      | > 40 kg/m <sup>2</sup> |            |      |
|---------|--------------------------|------------|------|-------------------------------|------------|------|-------------------------------|------------|------|-------------------------------|------------|------|------------------------|------------|------|
| Age     | N                        | Weighted % | SE   | N                             | Weighted % | SE   | N                             | Weighted % | SE   | N                             | Weighted % | SE   | N                      | Weighted % | SE   |
| 15 - 24 | 131                      | 12.3       | 1.27 | 568                           | 50.5       | 1.92 | 272                           | 23.4       | 1.60 | 152                           | 12.0       | 1.19 | 18                     | 1.9        | 0.53 |
| 25 - 34 | 49                       | 4.2        | 0.78 | 422                           | 29.0       | 1.66 | 509                           | 33.6       | 1.71 | 413                           | 28.9       | 1.63 | 54                     | 4.4        | 0.81 |
| 35 - 44 | 13                       | 1.8        | 0.57 | 210                           | 18.0       | 1.51 | 377                           | 30.7       | 1.75 | 483                           | 43.7       | 1.95 | 67                     | 5.8        | 0.89 |
| 45 - 54 | 8                        | 0.7        | 0.29 | 91                            | 13.8       | 1.67 | 225                           | 28         | 2.05 | 371                           | 47.1       | 2.34 | 78                     | 10.5       | 1.48 |
| 55 - 64 | 2                        | 0.2        | 0.15 | 42                            | 9.4        | 1.79 | 109                           | 27.3       | 3.18 | 203                           | 53.5       | 3.51 | 42                     | 9.6        | 1.94 |
| 65+     | 6                        | 2.0        | 1.00 | 70                            | 20.8       | 3.01 | 107                           | 33.6       | 3.70 | 145                           | 39.9       | 3.68 | 12                     | 3.7        | 1.22 |
| Total   | 209                      | 6.3        | 0.55 | 1,403                         | 32.3       | 0.98 | 1,599                         | 28         | 0.87 | 1,767                         | 28.8       | 0.85 | 271                    | 4.7        | 0.39 |

\*BMI is calculated as the person's weight in kilograms divided by their squared height in meters.

**Table 21: Mean BMI**

|         | Men   |      |      | Women |      |      | Total |      |      |
|---------|-------|------|------|-------|------|------|-------|------|------|
| Age     | N     | Mean | SE   | N     | Mean | SE   | N     | Mean | SE   |
| 15 - 24 | 1,134 | 24.2 | 0.22 | 1,134 | 24.4 | 0.21 | 2,268 | 24.3 | 0.15 |
| 25 - 34 | 1,213 | 27.2 | 0.22 | 1,435 | 27.7 | 0.21 | 2,648 | 27.5 | 0.15 |
| 35 - 44 | 1,090 | 28.8 | 0.22 | 1,140 | 30.1 | 0.24 | 2,230 | 29.5 | 0.17 |
| 45 - 54 | 684   | 28.5 | 0.24 | 761   | 31.3 | 0.29 | 1,445 | 29.9 | 0.19 |
| 55 - 64 | 426   | 28.5 | 0.33 | 393   | 32.0 | 0.37 | 819   | 30.1 | 0.26 |
| 65+     | 500   | 27.4 | 0.32 | 339   | 29.5 | 0.45 | 839   | 28.2 | 0.27 |

**Table 22: Daily servings of fruit, men**

|         | <1    |            |      | 1   |            |      | 2 – 4 |            |      | >5  |            |      |
|---------|-------|------------|------|-----|------------|------|-------|------------|------|-----|------------|------|
| Age     | N     | Weighted % | SE   | N   | Weighted % | SE   | N     | Weighted % | SE   | N   | Weighted % | SE   |
| 15 - 24 | 918   | 81.6       | 1.47 | 131 | 11.7       | 1.25 | 64    | 5.6        | 0.84 | 15  | 1.1        | 0.34 |
| 25 - 34 | 918   | 77.0       | 1.68 | 143 | 13.4       | 1.38 | 95    | 8.1        | 1.10 | 19  | 1.5        | 0.40 |
| 35 - 44 | 796   | 73.9       | 1.77 | 156 | 14.3       | 1.36 | 92    | 8.7        | 1.22 | 31  | 3.0        | 0.68 |
| 45 - 54 | 471   | 67.7       | 2.28 | 105 | 15.6       | 1.78 | 90    | 14.3       | 1.73 | 19  | 2.4        | 0.66 |
| 55 - 64 | 294   | 75.3       | 2.72 | 64  | 13.0       | 1.90 | 40    | 9.8        | 2.06 | 7   | 1.9        | 0.86 |
| 65+     | 344   | 73.4       | 2.62 | 78  | 15.4       | 2.14 | 51    | 9.6        | 1.74 | 12  | 1.6        | 0.54 |
| Total   | 3,741 | 77.0       | 0.82 | 677 | 13.2       | 0.68 | 432   | 8.1        | 0.52 | 103 | 1.7        | 0.21 |

**Table 23: Daily servings of fruit, women**

|         | <1    |            |      | 1   |            |      | 2 – 4 |            |      | >5 |            |      |
|---------|-------|------------|------|-----|------------|------|-------|------------|------|----|------------|------|
| Age     | N     | Weighted % | SE   | N   | Weighted % | SE   | N     | Weighted % | SE   | N  | Weighted % | SE   |
| 15 - 24 | 922   | 84.0       | 1.41 | 119 | 10.3       | 1.19 | 71    | 5.6        | 0.82 | 8  | 0.6        | 0.28 |
| 25 - 34 | 1,105 | 81.0       | 1.40 | 181 | 11.2       | 1.09 | 97    | 6.0        | 0.81 | 25 | 2.1        | 0.61 |
| 35 - 44 | 848   | 74.0       | 1.77 | 155 | 14.7       | 1.49 | 110   | 9.7        | 1.13 | 15 | 1.6        | 0.50 |
| 45 - 54 | 556   | 78.0       | 1.93 | 110 | 13.0       | 1.54 | 50    | 6.4        | 1.14 | 17 | 2.7        | 0.79 |
| 55 - 64 | 295   | 76.0       | 3.09 | 47  | 10.9       | 1.97 | 28    | 10.8       | 2.58 | 9  | 2.1        | 0.87 |
| 65+     | 260   | 77.0       | 3.58 | 47  | 14.7       | 3.06 | 20    | 6.9        | 2.14 | 2  | 1.5        | 1.22 |
| Total   | 3,986 | 80.0       | 0.78 | 659 | 11.8       | 0.64 | 376   | 6.8        | 0.47 | 76 | 1.5        | 0.22 |



**Table 24: Daily consumption of five or more servings of fruit**

| Age     | Men |            |      | Women |            |      | Total |            |      |
|---------|-----|------------|------|-------|------------|------|-------|------------|------|
|         | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 15  | 1.1        | 0.34 | 8     | 0.6        | 0.28 | 23    | 0.9        | 0.22 |
| 25 - 34 | 19  | 1.5        | 0.40 | 25    | 2.1        | 0.61 | 44    | 1.8        | 0.36 |
| 35 - 44 | 31  | 3.0        | 0.68 | 15    | 1.6        | 0.50 | 46    | 2.2        | 0.41 |
| 45 - 54 | 19  | 2.4        | 0.66 | 17    | 2.7        | 0.79 | 36    | 2.6        | 0.51 |
| 55 - 64 | 7   | 1.9        | 0.86 | 9     | 2.1        | 0.87 | 16    | 2.0        | 0.61 |
| 65+     | 12  | 1.6        | 0.54 | 2     | 1.5        | 1.22 | 14    | 1.6        | 0.59 |
| Total   | 103 | 1.7        | 0.21 | 76    | 1.5        | 0.22 | 179   | 1.6        | 0.16 |

**Table 25: Daily servings of vegetables, men**

| Age     | <1    |            |      | 1     |            |      | 2 – 4 |            |      | >5  |            |      |
|---------|-------|------------|------|-------|------------|------|-------|------------|------|-----|------------|------|
|         | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   | N   | Weighted % | SE   |
| 15 - 24 | 722   | 65.7       | 1.75 | 263   | 22.3       | 1.52 | 148   | 9.9        | 1.06 | 23  | 2.0        | 0.55 |
| 25 - 34 | 684   | 59.7       | 1.88 | 278   | 24.3       | 1.64 | 186   | 12.7       | 1.24 | 35  | 3.3        | 0.61 |
| 35 - 44 | 600   | 57.8       | 1.94 | 259   | 24         | 1.71 | 199   | 14.3       | 1.25 | 41  | 3.8        | 0.76 |
| 45 - 54 | 386   | 56.3       | 2.41 | 158   | 23.5       | 2.12 | 124   | 16.2       | 1.71 | 26  | 4.1        | 0.95 |
| 55 - 64 | 225   | 54.8       | 3.26 | 104   | 28.3       | 3.01 | 68    | 14.0       | 2.26 | 13  | 2.9        | 0.91 |
| 65+     | 313   | 65.7       | 2.85 | 93    | 17.1       | 2.18 | 78    | 15.0       | 2.18 | 11  | 2.2        | 0.84 |
| Total   | 2,930 | 61.5       | 0.95 | 1,155 | 23.3       | 0.83 | 803   | 12.4       | 0.61 | 149 | 2.9        | 0.31 |

**Table 26: Daily servings of vegetables, women**

|         | <1    |            |      | 1     |            |      | 2 – 4 |            |      | >5  |            |      |
|---------|-------|------------|------|-------|------------|------|-------|------------|------|-----|------------|------|
| Age     | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   | N   | Weighted % | SE   |
| 15 - 24 | 697   | 57.7       | 1.91 | 295   | 26.8       | 1.73 | 120   | 10.8       | 1.19 | 34  | 4.7        | 0.95 |
| 25 - 34 | 831   | 58.7       | 1.81 | 383   | 25.9       | 1.64 | 184   | 11.2       | 1.10 | 45  | 4.2        | 0.84 |
| 35 - 44 | 652   | 57.3       | 1.91 | 309   | 25.5       | 1.68 | 163   | 12.8       | 1.26 | 38  | 4.4        | 0.87 |
| 45 - 54 | 430   | 57.5       | 2.33 | 196   | 25.2       | 2.00 | 107   | 13.7       | 1.72 | 26  | 3.6        | 0.85 |
| 55 - 64 | 209   | 52.6       | 3.59 | 102   | 25.4       | 3.03 | 64    | 16.0       | 2.69 | 13  | 5.9        | 2.12 |
| 65+     | 215   | 57.5       | 3.92 | 74    | 22.9       | 3.29 | 39    | 14.8       | 3.06 | 6   | 4.8        | 2.22 |
| Total   | 3,034 | 57.5       | 0.98 | 1,359 | 26.0       | 0.89 | 677   | 12.0       | 0.63 | 162 | 4.5        | 0.47 |

**Table 27: Daily consumption of more than five servings of vegetables**

|         | Men |            |      | Women |            |      | Total |            |      |
|---------|-----|------------|------|-------|------------|------|-------|------------|------|
| Age     | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 23  | 2.0        | 0.55 | 34    | 4.7        | 0.95 | 57    | 3.3        | 0.54 |
| 25 - 34 | 35  | 3.3        | 0.61 | 45    | 4.2        | 0.84 | 80    | 3.8        | 0.52 |
| 35 - 44 | 41  | 3.8        | 0.76 | 38    | 4.4        | 0.87 | 79    | 4.2        | 0.59 |
| 45 - 54 | 26  | 4.1        | 0.95 | 26    | 3.7        | 0.85 | 52    | 3.9        | 0.64 |
| 55 - 64 | 13  | 2.9        | 0.91 | 13    | 5.9        | 2.12 | 26    | 4.2        | 1.08 |
| 65+     | 11  | 2.2        | 0.85 | 6     | 4.8        | 2.20 | 17    | 3.2        | 1.03 |
| Total   | 149 | 2.9        | 0.31 | 162   | 4.5        | 0.47 | 311   | 3.7        | 0.28 |

**Table 28: Daily servings of fresh juice, men**

|         | <1    |            |      | 1   |            |      | 2 – 4 |            |      | >5 |            |      |
|---------|-------|------------|------|-----|------------|------|-------|------------|------|----|------------|------|
| Age     | N     | Weighted % | SE   | N   | Weighted % | SE   | N     | Weighted % | SE   | N  | Weighted % | SE   |
| 15 - 24 | 1,038 | 91.6       | 1.07 | 58  | 5.7        | 0.88 | 19    | 2.2        | 0.62 | 8  | 0.5        | 0.23 |
| 25 - 34 | 1,047 | 89.5       | 1.20 | 80  | 7.0        | 0.94 | 25    | 2.7        | 0.76 | 10 | 0.8        | 0.28 |
| 35 - 44 | 986   | 90.6       | 1.20 | 59  | 6.4        | 1.01 | 24    | 2.2        | 0.53 | 7  | 0.9        | 0.46 |
| 45 - 54 | 607   | 87.6       | 1.63 | 44  | 7.4        | 1.28 | 26    | 4.1        | 0.96 | 6  | 0.9        | 0.55 |
| 55 - 64 | 373   | 92.5       | 1.62 | 21  | 5.0        | 1.35 | 7     | 1.3        | 0.59 | 4  | 1.2        | 0.73 |
| 65+     | 457   | 93.4       | 1.58 | 19  | 4.9        | 1.41 | 7     | 1.6        | 0.77 | 2  | 0.1        | 0.09 |
| Total   | 4,508 | 90.7       | 0.59 | 281 | 6.2        | 0.48 | 108   | 2.4        | 0.33 | 37 | 0.7        | 0.15 |

**Table 29: Daily servings of fresh juice, women**

|         | <1    |            |      | 1   |            |      | 2 – 4 |            |      | >5 |            |      |
|---------|-------|------------|------|-----|------------|------|-------|------------|------|----|------------|------|
| Age     | N     | Weighted % | SE   | N   | Weighted % | SE   | N     | Weighted % | SE   | N  | Weighted % | SE   |
| 15 - 24 | 1,025 | 92.5       | 1.00 | 55  | 4.8        | 0.80 | 19    | 2.1        | 0.57 | 6  | 0.6        | 0.28 |
| 25 - 34 | 1,293 | 90.1       | 1.22 | 76  | 6.9        | 1.05 | 27    | 2.1        | 0.61 | 9  | 0.9        | 0.33 |
| 35 - 44 | 1,014 | 90.6       | 1.15 | 64  | 5.8        | 0.84 | 26    | 3.2        | 0.75 | 2  | 0.5        | 0.35 |
| 45 - 54 | 699   | 94.3       | 1.09 | 26  | 3.8        | 0.86 | 8     | 1.2        | 0.53 | 3  | 0.7        | 0.44 |
| 55 - 64 | 356   | 91.7       | 2.01 | 18  | 6.5        | 1.82 | 6     | 1.9        | 0.92 | 0  | N/A        | N/A  |
| 65+     | 308   | 93.1       | 1.83 | 13  | 4.8        | 1.58 | 6     | 1.2        | 0.66 | 2  | 0.9        | 0.72 |
| Total   | 4,695 | 91.9       | 0.55 | 252 | 5.4        | 0.45 | 92    | 2.1        | 0.30 | 22 | 0.6        | 0.16 |

**Table 30: Daily consumption of more than five servings of fresh juice**

| Age     | Men  |            |      | Women |            |      | Total |            |      |
|---------|------|------------|------|-------|------------|------|-------|------------|------|
|         | N    | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 8.0  | 0.5        | 0.23 | 6.0   | 0.6        | 0.28 | 14.0  | 0.6        | 0.18 |
| 25 - 34 | 10.0 | 0.8        | 0.28 | 9.0   | 0.9        | 0.33 | 19.0  | 0.8        | 0.22 |
| 35 - 44 | 7.0  | 0.9        | 0.46 | 2.0   | 0.5        | 0.35 | 9.0   | 0.6        | 0.28 |
| 45 - 54 | 6.0  | 0.9        | 0.55 | 3.0   | 0.7        | 0.44 | 9.0   | 0.8        | 0.35 |
| 55 - 64 | 4.0  | 1.2        | 0.73 | 0.0   | N/A        | N/A  | 4.0   | 0.7        | 0.41 |
| 65+     | 2.0  | 0.1        | 0.09 | 2.0   | 0.9        | 0.72 | 4.0   | 0.4        | 0.29 |
| Total   | 37.0 | 0.7        | 0.15 | 22.0  | 0.6        | 0.16 | 59.0  | 0.6        | 0.11 |

**Table 31: Daily servings of fruit, fresh juice, and vegetables, men**

| Age     | <1    |            |      | 1     |            |      | 2 – 4 |            |      | >5  |            |      |
|---------|-------|------------|------|-------|------------|------|-------|------------|------|-----|------------|------|
|         | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   | N   | Weighted % | SE   |
| 15 - 24 | 384   | 36.1       | 1.82 | 405   | 32.7       | 0.74 | 323   | 25.8       | 1.60 | 63  | 5.4        | 0.86 |
| 25 - 34 | 328   | 27.8       | 1.77 | 407   | 34.4       | 0.81 | 405   | 30.5       | 1.71 | 82  | 7.4        | 1.00 |
| 35 - 44 | 263   | 25.6       | 1.74 | 393   | 34.9       | 0.87 | 361   | 31.4       | 1.83 | 100 | 8.1        | 1.00 |
| 45 - 54 | 150   | 21.8       | 2.04 | 235   | 33.4       | 2.28 | 244   | 33.1       | 2.26 | 79  | 11.7       | 1.52 |
| 55 - 64 | 123   | 32.9       | 3.11 | 143   | 31.7       | 2.88 | 126   | 27.3       | 2.81 | 35  | 8.2        | 1.74 |
| 65+     | 172   | 34.6       | 2.87 | 140   | 28.8       | 2.74 | 158   | 30.2       | 2.78 | 39  | 6.3        | 1.27 |
| Total   | 1,420 | 30.9       | 0.94 | 1,723 | 33.2       | 0.92 | 1,617 | 28.7       | 0.87 | 398 | 7.2        | 0.49 |

**Table 32: Daily servings of fruit, fresh juice, and vegetables, women**

|         | <1    |            |      | 1    |            |      | 2 – 4 |            |      | >5  |            |      |
|---------|-------|------------|------|------|------------|------|-------|------------|------|-----|------------|------|
| Age     | N     | Weighted % | SE   | N    | Weighted % | SE   | N     | Weighted % | SE   | N   | Weighted % | SE   |
| 15 - 24 | 399   | 36.2       | 1.83 | 403  | 31.0       | 1.73 | 303   | 24.8       | 1.64 | 66  | 8.0        | 1.12 |
| 25 - 34 | 385   | 29.6       | 1.65 | 528  | 35.2       | 1.74 | 471   | 27.7       | 1.56 | 91  | 7.5        | 1.05 |
| 35 - 44 | 306   | 27.8       | 1.74 | 445  | 35.1       | 1.82 | 342   | 28.3       | 1.74 | 89  | 8.9        | 1.14 |
| 45 - 54 | 239   | 32.9       | 2.23 | 272  | 33.6       | 2.16 | 222   | 26.6       | 2.04 | 52  | 6.9        | 1.20 |
| 55 - 64 | 112   | 27.0       | 3.10 | 143  | 32.8       | 3.22 | 122   | 30.9       | 3.17 | 28  | 9.2        | 2.47 |
| 65+     | 131   | 35.5       | 3.50 | 112  | 29.1       | 3.42 | 90    | 26.2       | 2.26 | 14  | 9.3        | 3.00 |
| Total   | 1,572 | 32.4       | 0.93 | 1903 | 33.0       | 0.91 | 1,550 | 26.6       | 0.86 | 340 | 8.0        | 0.57 |

**Table 33: Daily consumption of more than five servings of fruit, fresh juice and vegetables.**

|         | Men |            |      | Women |            |      | Total |            |      |
|---------|-----|------------|------|-------|------------|------|-------|------------|------|
| Age     | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 63  | 5.4        | 0.86 | 66    | 8          | 1.12 | 129   | 6.6        | 0.71 |
| 25 - 34 | 82  | 7.4        | 1.00 | 91    | 7.5        | 1.05 | 173   | 7.4        | 0.73 |
| 35 - 44 | 100 | 8.1        | 1.00 | 89    | 8.9        | 1.15 | 189   | 8.5        | 0.77 |
| 45 - 54 | 79  | 11.7       | 1.52 | 52    | 6.9        | 1.20 | 131   | 9.3        | 0.97 |
| 55 - 64 | 35  | 8.2        | 1.74 | 28    | 9.2        | 2.47 | 63    | 8.7        | 1.46 |
| 65+     | 39  | 6.3        | 1.27 | 14    | 9.3        | 2.99 | 53    | 7.5        | 1.43 |
| Total   | 398 | 7.2        | 0.49 | 340   | 8.0        | 0.57 | 738   | 7.6        | 0.38 |

**Table 34: Mean of fruit, fresh juice, and vegetable servings consumed per day**

| Age     | Men   |      |          |          | Women |      |          |          | Total |      |          |          |
|---------|-------|------|----------|----------|-------|------|----------|----------|-------|------|----------|----------|
|         | N     | mean | Lower CI | Upper CI | N     | mean | Lower CI | Upper CI | N     | mean | Lower CI | Upper CI |
| 15 - 24 | 1,189 | 0.1  | 0.06     | 0.2      | 1,193 | 0.1  | 0.04     | 0.18     | 2,382 | 0.1  | 0.08     | 0.17     |
| 25 - 34 | 1,254 | 0.3  | 0.24     | 0.38     | 1,503 | 0.3  | 0.28     | 0.39     | 2,757 | 0.3  | 0.28     | 0.37     |
| 35 - 44 | 1,132 | 0.4  | 0.37     | 0.49     | 1,207 | 0.3  | 0.27     | 0.39     | 2,339 | 0.4  | 0.33     | 0.42     |
| 45 - 54 | 722   | 0.5  | 0.45     | 0.61     | 798   | 0.3  | 0.17     | 0.33     | 1,520 | 0.4  | 0.33     | 0.44     |
| 55 - 64 | 439   | 0.3  | 0.2      | 0.42     | 423   | 0.2  | 0.13     | 0.36     | 862   | 0.3  | 0.2      | 0.36     |
| 65+     | 517   | 0.2  | 0.04     | 0.27     | 358   | -0.1 | -0.2     | 0.09     | 875   | 0.1  | -0.02    | 0.16     |

**Table 35: Self-rated health, men**

|          | Excellent or very good |            |      | Good |            |      | Fair or poor |            |      |
|----------|------------------------|------------|------|------|------------|------|--------------|------------|------|
| Age      | N                      | Weighted % | SE   | N    | Weighted % | SE   | N            | Weighted % | SE   |
| 15 - 24  | 1,075                  | 90.3       | 1.12 | 84   | 7.5        | 1.00 | 29           | 2.2        | 0.54 |
| 25 - 34  | 1,098                  | 87.7       | 1.17 | 123  | 10.1       | 1.09 | 31           | 2.1        | 0.46 |
| 35 - 44. | 938                    | 79.9       | 1.72 | 155  | 17.0       | 1.63 | 34           | 3.1        | 0.73 |
| 45 - 54  | 509                    | 67.2       | 2.29 | 156  | 24.7       | 2.11 | 55           | 8.1        | 1.37 |
| 55 - 64  | 249                    | 56.2       | 3.12 | 124  | 30.5       | 2.92 | 66           | 13.3       | 2.03 |
| 65+      | 171                    | 31.9       | 2.79 | 184  | 38.0       | 2.93 | 161          | 30.1       | 2.69 |
| Total    | 4,040                  | 80.3       | 0.73 | 826  | 14.5       | 0.65 | 376          | 5.1        | 0.38 |

**Table 36: Self-rated health, women**

|          | Excellent or very good |            |      | Good  |            |      | Fair or poor |            |      |
|----------|------------------------|------------|------|-------|------------|------|--------------|------------|------|
| Age      | N                      | Weighted % | SE   | N     | Weighted % | SE   | N            | Weighted % | SE   |
| 15 - 24  | 1,010                  | 85.0       | 1.35 | 146   | 11.4       | 1.18 | 33           | 3.6        | 0.74 |
| 25 - 34  | 1,232                  | 83.1       | 1.27 | 222   | 14.6       | 1.21 | 45           | 2.3        | 0.45 |
| 35 - 44. | 857                    | 71.0       | 1.73 | 289   | 23.6       | 1.59 | 59           | 5.4        | 0.93 |
| 45 - 54  | 433                    | 54.8       | 2.31 | 266   | 34.2       | 2.19 | 94           | 11.0       | 1.51 |
| 55 - 64  | 161                    | 41.8       | 3.46 | 148   | 37.3       | 3.28 | 110          | 20.9       | 2.51 |
| 65+      | 87                     | 26.5       | 3.24 | 122   | 37.1       | 3.70 | 148          | 36.5       | 3.58 |
| Total    | 3,780                  | 73.8       | 0.81 | 1,193 | 19.5       | 0.72 | 489          | 6.7        | 0.45 |

**Table 37: Last routine medical checkup, men**

|          | Never |            |      | Within 2013 |            |      | Within 2012 |            |      | 2- 6 years ago |            |      |
|----------|-------|------------|------|-------------|------------|------|-------------|------------|------|----------------|------------|------|
| Age      | N     | Weighted % | SE   | N           | Weighted % | SE   | N           | Weighted % | SE   | N              | Weighted % | SE   |
| 15 - 24  | 1,015 | 86.5       | 1.28 | 85          | 7.3        | 1.00 | 56          | 3.9        | 0.71 | 31             | 2.2        | 0.54 |
| 25 - 34  | 950   | 76.4       | 1.59 | 159         | 13.6       | 1.30 | 86          | 5.1        | 0.73 | 57             | 4.9        | 0.84 |
| 35 - 44. | 766   | 66.6       | 1.87 | 202         | 18.9       | 1.58 | 97          | 8.6        | 1.05 | 66             | 5.9        | 1.02 |
| 45 - 54  | 436   | 56.8       | 2.38 | 188         | 29.2       | 2.23 | 64          | 9.9        | 1.42 | 34             | 4.1        | 0.86 |
| 55 - 64  | 250   | 59.5       | 3.07 | 122         | 24.7       | 2.60 | 42          | 9.3        | 1.89 | 25             | 6.5        | 1.63 |
| 65+      | 311   | 58.1       | 2.95 | 148         | 30.7       | 2.79 | 43          | 8.9        | 1.69 | 15             | 2.3        | 0.69 |
| Total    | 3,728 | 74.8       | 0.81 | 904         | 15.2       | 0.66 | 388         | 6.2        | 0.43 | 228            | 3.8        | 0.36 |

**Table 38: Last routine medical checkup, women**

|          | Never |            |      | Within 2013 |            |      | Within 2012 |            |      | 2-6 years ago |            |      |
|----------|-------|------------|------|-------------|------------|------|-------------|------------|------|---------------|------------|------|
| Age      | N     | Weighted % | SE   | N           | Weighted % | SE   | N           | Weighted % | SE   | N             | Weighted % | SE   |
| 15 - 24  | 983   | 83.4       | 1.35 | 117         | 9.0        | 1.02 | 60          | 4.9        | 0.79 | 33            | 2.6        | 0.60 |
| 25 - 34  | 1,149 | 76.2       | 1.52 | 215         | 13.5       | 1.17 | 83          | 5.8        | 0.84 | 56            | 4.5        | 0.83 |
| 35 - 44. | 902   | 73.1       | 1.68 | 194         | 16.6       | 1.39 | 76          | 7.3        | 1.03 | 35            | 3.0        | 0.63 |
| 45 - 54  | 536   | 67.5       | 1.16 | 178         | 21.2       | 1.85 | 54          | 7.6        | 1.26 | 29            | 3.8        | 0.90 |
| 55 - 64  | 282   | 66.9       | 3.16 | 105         | 23.8       | 2.81 | 27          | 6.7        | 1.66 | 8             | 2.6        | 1.20 |
| 65+      | 209   | 60.7       | 3.63 | 110         | 27.6       | 3.23 | 31          | 10.5       | 2.46 | 7             | 1.2        | 0.52 |
| Total    | 4,061 | 76.3       | 0.79 | 919         | 14.3       | 0.62 | 331         | 6.2        | 0.45 | 168           | 3.2        | 0.34 |



**Table 39: Distance traveled for medical checkup, men**

| Age      | < 5 km |            |      | 5 - 10 km |            |      | 10 - 50 km |            |      | 50 - 100 km |            |      |
|----------|--------|------------|------|-----------|------------|------|------------|------------|------|-------------|------------|------|
|          | N      | Weighted % | SE   | N         | Weighted % | SE   | N          | Weighted % | SE   | N           | Weighted % | SE   |
| 15 - 24  | 143    | 71.4       | 4.17 | 35        | 18.7       | 3.78 | 20         | 8.9        | 2.33 | 3           | 0.9        | 0.80 |
| 25 - 34  | 203    | 63.8       | 3.41 | 62        | 18.9       | 2.91 | 64         | 16.0       | 2.27 | 4           | 1.3        | 0.82 |
| 35 - 44. | 238    | 60.8       | 3.34 | 72        | 19.0       | 2.62 | 68         | 19.8       | 2.82 | 2           | 0.5        | 0.34 |
| 45 - 54  | 182    | 66.3       | 3.48 | 51        | 16.5       | 2.68 | 47         | 16.3       | 2.72 | 2           | 0.9        | 0.73 |
| 55 - 64  | 117    | 62.8       | 4.63 | 36        | 19.5       | 3.93 | 29         | 16.8       | 3.49 | 3           | 0.9        | 0.56 |
| 65+      | 125    | 55.9       | 4.63 | 32        | 19.4       | 4.00 | 46         | 23.0       | 3.81 | 3           | 1.7        | 1.14 |
| Total    | 1,008  | 64.9       | 1.62 | 288       | 18.5       | 1.39 | 274        | 15.6       | 1.14 | 17          | 1.0        | 0.32 |

**Table 40: Distance traveled for medical checkup, women**

| Age      | < 5 km |            |      | 5 - 10 km |            |      | 10 - 50 km |            |      | 50 - 100 km |            |      |
|----------|--------|------------|------|-----------|------------|------|------------|------------|------|-------------|------------|------|
|          | N      | Weighted % | SE   | N         | Weighted % | SE   | N          | Weighted % | SE   | N           | Weighted % | SE   |
| 15 - 24  | 97     | 54.3       | 4.85 | 36        | 18.8       | 3.90 | 44         | 26.6       | 4.25 | 1           | 0.3        | 0.33 |
| 25 - 34  | 162    | 58.2       | 3.94 | 67        | 21.4       | 3.50 | 56         | 18.6       | 2.94 | 6           | 1.7        | 0.86 |
| 35 - 44. | 110    | 49.3       | 4.36 | 49        | 21.7       | 3.60 | 53         | 24.1       | 3.78 | 6           | 4.9        | 2.52 |
| 45 - 54  | 117    | 54.1       | 4.22 | 56        | 20.5       | 3.23 | 51         | 22.5       | 3.61 | 4           | 2.9        | 1.54 |
| 55 - 64  | 65     | 60.4       | 6.06 | 24        | 22.8       | 5.82 | 25         | 14.3       | 3.14 | 3           | 2.5        | 1.45 |
| 65+      | 69     | 58.8       | 6.06 | 19        | 16.9       | 4.59 | 30         | 22.1       | 4.81 | 2           | 2.1        | 1.52 |
| Total    | 620    | 55.0       | 2.02 | 251       | 20.4       | 1.69 | 259        | 22.4       | 1.71 | 22          | 2.1        | 0.57 |

**Table 41: Hypertension\* including those on drugs**

|         | Men   |            |      | Women |            |      | Total |            |      |
|---------|-------|------------|------|-------|------------|------|-------|------------|------|
| Age     | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 50    | 4.2        | 0.75 | 24    | 2.4        | 0.63 | 74    | 3.4        | 0.49 |
| 25 - 34 | 135   | 10.3       | 1.06 | 69    | 4.1        | 0.66 | 204   | 7.3        | 0.63 |
| 35 - 44 | 216   | 21.1       | 1.61 | 149   | 13.3       | 1.37 | 365   | 16.9       | 1.05 |
| 45 - 54 | 232   | 35.3       | 2.37 | 224   | 26.9       | 2.04 | 456   | 31         | 1.56 |
| 55 - 64 | 209   | 48.3       | 3.17 | 214   | 48.4       | 3.44 | 423   | 48.4       | 2.33 |
| 65+     | 318   | 68         | 2.66 | 217   | 60.9       | 3.62 | 535   | 65.2       | 2.16 |
| Total   | 1,160 | 17.7       | 0.67 | 897   | 12.5       | 0.57 | 2,057 | 15.1       | 0.44 |

\*An individual is considered hypertensive if their systolic blood pressure was 140 mmHg or more, or if their diastolic blood pressure was 90 mmHg or more, or if they have been diagnosed and are currently treated for hypertension but their systolic and diastolic blood pressure are below the cited cut-off points.

**Table 42: Status of diagnosis, treatment, and control among those who are hypertensive, men**

|         | Undiagnosed |            |      | Untreated |            |      | Treated controlled |            |      | Treated uncontrolled |            |      |
|---------|-------------|------------|------|-----------|------------|------|--------------------|------------|------|----------------------|------------|------|
| Age     | N           | Weighted % | SE   | N         | Weighted % | SE   | N                  | Weighted % | SE   | N                    | Weighted % | SE   |
| 15 - 24 | 48          | 97.8       | 1.62 | 1         | 1.0        | 0.98 | 0                  | N/A        | N/A  | 1                    | 1.3        | 1.27 |
| 25 - 34 | 104         | 77.4       | 4.51 | 14        | 10.6       | 3.09 | 10                 | 8.5        | 3.48 | 6                    | 3.5        | 1.51 |
| 35 - 44 | 160         | 74.7       | 3.67 | 17        | 7.4        | 2.07 | 18                 | 10.2       | 2.74 | 16                   | 7.7        | 2.13 |
| 45 - 54 | 136         | 61.7       | 4.12 | 13        | 5.3        | 1.76 | 35                 | 16.7       | 3.29 | 44                   | 16.3       | 2.91 |
| 55 - 64 | 93          | 41.6       | 4.64 | 11        | 5.7        | 2.13 | 42                 | 20.4       | 3.80 | 62                   | 32.3       | 4.54 |
| 65+     | 117         | 39.0       | 3.71 | 17        | 4.6        | 1.47 | 60                 | 17.6       | 2.88 | 117                  | 38.8       | 3.74 |
| Total   | 658         | 61.2       | 1.90 | 73        | 5.8        | 0.82 | 165                | 13.9       | 1.38 | 246                  | 19.1       | 1.50 |

**Table 43: Status of diagnosis, treatment and control among those who are hypertensive, women**

| Age     | Undiagnosed |            |      | Untreated |            |      | Treated controlled |            |      | Treated uncontrolled |            |      |
|---------|-------------|------------|------|-----------|------------|------|--------------------|------------|------|----------------------|------------|------|
|         | N           | Weighted % | SE   | N         | Weighted % | SE   | N                  | Weighted % | SE   | N                    | Weighted % | SE   |
| 15 - 24 | 22          | 95.6       | 3.25 | 0         | N/A        | N/A  | 1                  | 2.6        | 2.59 | 1                    | 1.9        | 1.89 |
| 25 - 34 | 57          | 84.8       | 5.28 | 4         | 7.3        | 3.97 | 3                  | 4.0        | 2.99 | 3                    | 3.9        | 2.26 |
| 35 - 44 | 97          | 63.7       | 5.44 | 9         | 9.9        | 4.12 | 22                 | 12.1       | 3.14 | 18                   | 14.3       | 3.94 |
| 45 - 54 | 103         | 45.0       | 4.34 | 11        | 5.8        | 2.39 | 44                 | 21.6       | 3.76 | 64                   | 27.5       | 4.03 |
| 55 - 64 | 84          | 44.7       | 4.97 | 4         | 1.4        | 2.94 | 64                 | 30.2       | 4.25 | 57                   | 23.8       | 4.09 |
| 65+     | 68          | 32.1       | 4.71 | 12        | 4.2        | 1.38 | 61                 | 30.0       | 4.74 | 73                   | 33.7       | 4.66 |
| Total   | 431         | 52.9       | 2.37 | 40        | 4.9        | 1.10 | 195                | 20.5       | 1.83 | 216                  | 21.7       | 1.89 |

**Table 44: Mean of measured systolic blood pressure**

| Age     | Men   |       |      | Women |       |      | Total |       |      |
|---------|-------|-------|------|-------|-------|------|-------|-------|------|
|         | N     | Mean  | SE   | N     | Mean  | SE   | N     | Mean  | SE   |
| 15 - 24 | 1,180 | 116.0 | 0.38 | 1,178 | 109.1 | 0.43 | 2,358 | 112.6 | 0.30 |
| 25 - 34 | 1,238 | 120.0 | 0.34 | 1,489 | 111.3 | 0.39 | 2,727 | 115.8 | 0.28 |
| 35 - 44 | 1,122 | 123.3 | 0.49 | 1,183 | 116.0 | 0.49 | 2,305 | 119.3 | 0.36 |
| 45 - 54 | 705   | 129.0 | 0.75 | 789   | 123.3 | 0.83 | 1,494 | 126.1 | 0.57 |
| 55 - 64 | 435   | 135.1 | 1.14 | 417   | 129.2 | 1.32 | 852   | 132.5 | 0.88 |
| 65+     | 514   | 142.3 | 1.33 | 355   | 136.7 | 1.91 | 869   | 140.0 | 1.14 |

**Table 45: Mean of measured diastolic blood pressure**

|         | Men   |      |      | Women |      |      | Total |      |      |
|---------|-------|------|------|-------|------|------|-------|------|------|
| Age     | N     | Mean | SE   | N     | Mean | SE   | N     | Mean | SE   |
| 15 - 24 | 1,179 | 74.1 | 0.30 | 1,175 | 72.8 | 0.28 | 2,354 | 73.5 | 0.20 |
| 25 - 34 | 1,228 | 78.4 | 0.27 | 1,484 | 74.8 | 0.28 | 2,712 | 76.6 | 0.20 |
| 35 - 44 | 1,119 | 81.4 | 0.38 | 1,180 | 77.7 | 0.33 | 2,299 | 79.4 | 0.25 |
| 45 - 54 | 705   | 83.2 | 0.45 | 789   | 81.1 | 0.46 | 1,494 | 82.1 | 0.33 |
| 55 - 64 | 435   | 85.8 | 0.57 | 415   | 83.1 | 0.75 | 850   | 84.6 | 0.46 |
| 65+     | 514   | 84.5 | 0.70 | 355   | 83.3 | 0.94 | 869   | 84.0 | 0.57 |

**Table 46: Measured pre-hypertension**

|         | Men   |            |      | Women |            |      | Total |            |      |
|---------|-------|------------|------|-------|------------|------|-------|------------|------|
| Age     | N     | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 454   | 38.7       | 1.82 | 295   | 24.5       | 1.62 | 749   | 31.8       | 1.24 |
| 25 - 34 | 651   | 54.7       | 1.88 | 485   | 34.4       | 1.73 | 1,136 | 44.8       | 1.31 |
| 35 - 44 | 610   | 54.6       | 1.96 | 501   | 43.3       | 1.92 | 1,111 | 48.4       | 1.38 |
| 45 - 54 | 373   | 51.4       | 2.43 | 366   | 37.1       | 2.32 | 739   | 49.2       | 1.68 |
| 55 - 64 | 224   | 53.3       | 3.16 | 186   | 43.3       | 3.41 | 410   | 49.3       | 2.33 |
| 65+     | 201   | 32.8       | 2.65 | 141   | 39.2       | 3.63 | 342   | 35.4       | 2.17 |
| Total   | 2,513 | 46.5       | 0.98 | 1,974 | 34.3       | 0.91 | 4,487 | 40.5       | 0.68 |

\*An individual is considered pre-hypertensive if their systolic blood pressure was 120 mmHg to less than 140 mmHg, or if their diastolic blood pressure was 80 mmHg to less than 90 mmHg

**Table 47: Diabetes\* including those on drugs**

|         | Men |            |      | Women |            |      | Total |            |      |
|---------|-----|------------|------|-------|------------|------|-------|------------|------|
| Age     | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 30  | 4.0        | 0.96 | 37    | 5.4        | 1.19 | 67    | 4.7        | 0.76 |
| 25 - 34 | 47  | 9.5        | 1.74 | 51    | 5.9        | 1.07 | 98    | 7.8        | 1.06 |
| 35 - 44 | 86  | 14.5       | 1.90 | 79    | 10.5       | 1.58 | 165   | 12.4       | 1.23 |
| 35 - 44 | 123 | 30.9       | 3.22 | 136   | 22.5       | 2.52 | 259   | 26.9       | 2.09 |
| 55 - 64 | 132 | 53.0       | 4.53 | 107   | 41.6       | 4.93 | 239   | 47.8       | 3.36 |
| 65+     | 175 | 51.8       | 3.94 | 96    | 48.2       | 5.02 | 271   | 50.4       | 3.11 |
| Total   | 593 | 14.8       | 0.88 | 506   | 11.7       | 0.79 | 1,099 | 13.4       | 0.59 |

\*An individual is considered diabetic if their blood HbA1c level was 6.5% or more, or if they have been diagnosed and are currently treated for diabetes but their blood HbA1c level was less than 6.5%.

**Table 48: Status of diagnosis, treatment, and control among those who are diabetic, men**

|         | Undiagnosed |            |      | Untreated |            |      | Treated controlled |            |      | Treated uncontrolled |            |      |
|---------|-------------|------------|------|-----------|------------|------|--------------------|------------|------|----------------------|------------|------|
| Age     | N           | Weighted % | SE   | N         | Weighted % | SE   | N                  | Weighted % | SE   | N                    | Weighted % | SE   |
| 15 - 24 | 25          | 92.8       | 3.83 | 1         | 1.4        | 1.43 | 0                  | N/A        | N/A  | 3                    | 5.7        | 3.50 |
| 25 - 34 | 29          | 71.7       | 7.77 | 1         | 1.4        | 1.45 | 14                 | 26.0       | 7.60 | 2                    | 0.9        | 0.68 |
| 35 - 44 | 41          | 42.5       | 6.80 | 3         | 2.3        | 1.47 | 23                 | 28.6       | 6.36 | 18                   | 26.5       | 6.33 |
| 45 - 54 | 38          | 24.5       | 5.05 | 6         | 3.5        | 1.65 | 51                 | 50.5       | 6.20 | 26                   | 21.5       | 4.81 |
| 55 - 64 | 32          | 24.0       | 5.38 | 1         | 0.4        | 0.42 | 53                 | 38.5       | 5.57 | 45                   | 37.1       | 5.70 |
| 65+     | 29          | 19.2       | 5.88 | 2         | 1.2        | 1.09 | 70                 | 46.1       | 5.70 | 73                   | 33.5       | 5.21 |
| Total   | 194         | 40.2       | 3.14 | 14        | 1.8        | 0.54 | 211                | 35.1       | 2.76 | 167                  | 22.9       | 2.31 |

**Table 49: Status of diagnosis, treatment, and control among those who are diabetic, women**

| Age          | Undiagnosed |            |      | Untreated |            |      | Treated controlled |            |      | Treated uncontrolled |            |      |
|--------------|-------------|------------|------|-----------|------------|------|--------------------|------------|------|----------------------|------------|------|
|              | N           | Weighted % | SE   | N         | Weighted % | SE   | N                  | Weighted % | SE   | N                    | Weighted % | SE   |
| 15 - 24      | 29          | 84.8       | 6.40 | 0         | N/A        | N/A  | 5                  | 12.7       | 6.11 | 2                    | 2.6        | 1.84 |
| 25 - 34      | 40          | 81.0       | 6.68 | 0         | N/A        | N/A  | 6                  | 9.8        | 5.08 | 5                    | 9.2        | 4.79 |
| 35 - 44      | 47          | 54.6       | 7.95 | 0         | N/A        | N/A  | 18                 | 23.3       | 6.28 | 14                   | 22.0       | 7.00 |
| 45 - 54      | 44          | 31.8       | 5.49 | 1         | 0.1        | 0.07 | 35                 | 27.3       | 5.50 | 56                   | 40.9       | 6.11 |
| 55 - 64      | 24          | 33.8       | 7.80 | 2         | 0.3        | 0.24 | 50                 | 45.1       | 7.02 | 31                   | 20.8       | 4.80 |
| 65+          | 11          | 10.0       | 4.02 | 3         | 3.4        | 2.35 | 39                 | 44.1       | 7.14 | 41                   | 42.6       | 7.25 |
| <b>Total</b> | 195         | 48.4       | 3.33 | 6         | 0.5        | 0.30 | 153                | 27.8       | 2.71 | 149                  | 23.4       | 2.49 |

**Table 50: Pre-diabetes\* measured by HbA1C**

| Age          | Men |            |      | Women |            |      | Total |            |      |
|--------------|-----|------------|------|-------|------------|------|-------|------------|------|
|              | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24      | 77  | 12.9       | 1.95 | 75    | 14.1       | 2.09 | 152   | 13.5       | 1.43 |
| 25 - 34      | 85  | 15.4       | 2.03 | 105   | 13.1       | 1.71 | 190   | 14.3       | 1.34 |
| 35 - 44      | 114 | 22.7       | 2.59 | 131   | 17.9       | 1.97 | 145   | 20.2       | 1.62 |
| 45 - 54      | 85  | 21.0       | 2.88 | 92    | 19.8       | 2.70 | 177   | 20.5       | 1.98 |
| 55 - 64      | 61  | 28.4       | 4.25 | 44    | 17.1       | 4.03 | 105   | 23.2       | 2.98 |
| 65+          | 66  | 21.0       | 3.26 | 44    | 21.3       | 1.03 | 110   | 21.2       | 2.53 |
| <b>Total</b> | 488 | 17.0       | 1.10 | 491   | 15.5       | 1.08 | 979   | 16.3       | 0.77 |

\*An individual is considered pre-diabetic if their blood HbA1c level was 5.7% to less than 6.5%.

**Table 51: Mean of measured HbA1c Level**

| Age     | Men |      |                | Women |      |                | Total |      |                |
|---------|-----|------|----------------|-------|------|----------------|-------|------|----------------|
|         | N   | Mean | SE of the mean | N     | Mean | SE of the mean | N     | Mean | SE of the mean |
| 15 - 24 | 457 | 5.5  | 0.04           | 453   | 5.5  | 0.05           | 910   | 5.5  | 0.03           |
| 25 - 34 | 425 | 5.6  | 0.07           | 606   | 5.5  | 0.05           | 1031  | 5.6  | 0.05           |
| 35 - 44 | 426 | 5.8  | 0.07           | 545   | 5.7  | 0.07           | 971   | 5.8  | 0.05           |
| 45 - 54 | 313 | 6.0  | 0.09           | 387   | 6.0  | 0.09           | 700   | 6.0  | 0.06           |
| 55 - 64 | 199 | 6.7  | 0.15           | 185   | 6.3  | 0.27           | 384   | 6.5  | 0.15           |
| 65+     | 272 | 6.4  | 0.11           | 161   | 6.5  | 0.16           | 433   | 6.4  | 0.09           |

**Table 52: Hypercholesterolemia\*, including those on drugs**

|         | Men |            |      | Women |            |      | Total |            |      |
|---------|-----|------------|------|-------|------------|------|-------|------------|------|
| Age     | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 20  | 4.1        | 1.23 | 26    | 2.9        | 0.99 | 46    | 3.5        | 0.80 |
| 25 - 34 | 39  | 5.7        | 1.19 | 53    | 5.6        | 0.95 | 92    | 5.7        | 0.78 |
| 35 - 44 | 69  | 13.3       | 2.13 | 64    | 8.7        | 1.44 | 133   | 10.9       | 1.27 |
| 45 - 54 | 72  | 20.0       | 2.88 | 58    | 12.1       | 2.20 | 130   | 16.3       | 1.85 |
| 55 - 64 | 53  | 20.7       | 3.56 | 61    | 19.5       | 3.23 | 114   | 20.2       | 2.44 |
| 65+     | 77  | 27.6       | 3.60 | 52    | 30.5       | 4.88 | 129   | 28.7       | 2.91 |
| Total   | 330 | 9.5        | 0.80 | 314   | 7.3        | 0.64 | 644   | 8.5        | 0.52 |

\*An individual is considered hypercholesterolemic if their blood total cholesterol level was 6.2 mmol/L or more, or if they have been diagnosed and are currently treated for hypercholesterolemia but their blood total cholesterol level was less than 6.5 mmol/L.

**Table 53: Status of diagnosis, treatment, and control among those who are hypercholesterolemic, men**

|         | Undiagnosed |            |      | Untreated |            |      | Treated controlled |            |      | Treated uncontrolled |            |      |
|---------|-------------|------------|------|-----------|------------|------|--------------------|------------|------|----------------------|------------|------|
| Age     | N           | Weighted % | SE   | N         | Weighted % | SE   | N                  | Weighted % | SE   | N                    | Weighted % | SE   |
| 15 - 24 | 20          | 100        | 0    | 0         | N/A        | N/A  | 0                  | N/A        | 0    | 0                    | N/A        | N/A  |
| 25 - 34 | 36          | 93.2       | 6.24 | 1         | 6.5        | 6.24 | 1                  | 0.3        | 0.26 | 0                    | N/A        | N/A  |
| 35 - 44 | 46          | 63.4       | 8.42 | 5         | 8.8        | 4.25 | 14                 | 25.6       | 7.89 | 3                    | 2.2        | 1.43 |
| 45 - 54 | 39          | 54.3       | 8.21 | 4         | 5.9        | 3.37 | 23                 | 36.2       | 8.16 | 3                    | 3.6        | 2.45 |
| 55 - 64 | 19          | 38.8       | 9.66 | 1         | 0.6        | 0.65 | 31                 | 60.1       | 9.64 | 1                    | 0.5        | 0.46 |
| 65+     | 14          | 17.0       | 5.59 | 1         | 1.1        | 1.08 | 59                 | 81.0       | 5.72 | 2                    | 1.0        | 0.80 |
| Total   | 174         | 62.6       | 3.93 | 12        | 4.1        | 1.42 | 128                | 31.9       | 3.69 | 9                    | 1.4        | 0.66 |



**Table 54: Status of diagnosis, treatment, and control among those who are hypercholesterolemic, women**

| Age          | Undiagnosed |            |       | Untreated |            |      | Treated controlled |            |       | Treated uncontrolled |            |      |
|--------------|-------------|------------|-------|-----------|------------|------|--------------------|------------|-------|----------------------|------------|------|
|              | N           | Weighted % | SE    | N         | Weighted % | SE   | N                  | Weighted % | SE    | N                    | Weighted % | SE   |
| 15 - 24      | 26          | 100.0      | 0     | 0         | N/A        | N/A  | 0                  | N/A        | N/A   | 0                    | N/A        | N/A  |
| 25 - 34      | 49          | 95.4       | 2.94  | 1         | 2.6        | 2.55 | 2                  | 2.0        | 1.47  | 0                    | N/A        | N/A  |
| 35 - 44      | 47          | 73.7       | 7.90  | 6         | 11.0       | 6.13 | 8                  | 14.1       | 5.92  | 2                    | 1.2        | 0.89 |
| 45 - 54      | 28          | 63.3       | 8.62  | 1         | 4.6        | 4.54 | 25                 | 31.1       | 7.73  | 1                    | 0.9        | 0.92 |
| 55 - 64      | 19          | 33.1       | 8.07  | 5         | 7.6        | 3.51 | 32                 | 54.6       | 8.45  | 2                    | 4.7        | 3.29 |
| 65+          | 17          | 35.5       | 10.01 | 0         | N/A        | N/A  | 24                 | 45.3       | 10.58 | 9                    | 19.2       | 7.08 |
| <b>Total</b> | 186         | 68.9       | 3.68  | 13        | 4.6        | 1.68 | 91                 | 23.0       | 3.06  | 14                   | 3.5        | 1.13 |

**Table 55: Measured pre-hypercholesterolemia**

| Age          | Men |            |      | Women |            |      | Total |            |      |
|--------------|-----|------------|------|-------|------------|------|-------|------------|------|
|              | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24      | 52  | 10.3       | 1.83 | 77    | 14.0       | 2.13 | 129   | 12.0       | 1.40 |
| 25 - 34      | 115 | 21.1       | 2.47 | 157   | 22.5       | 2.40 | 272   | 21.7       | 1.73 |
| 35 - 44      | 144 | 30.1       | 2.93 | 159   | 25.6       | 2.38 | 303   | 27.8       | 1.89 |
| 45 - 54      | 99  | 30.1       | 3.38 | 139   | 30.8       | 3.06 | 238   | 30.4       | 2.29 |
| 55 - 64      | 64  | 30.0       | 2.25 | 57    | 30.0       | 5.40 | 121   | 30.0       | 3.38 |
| 65+          | 87  | 26.0       | 3.65 | 48    | 17.4       | 3.49 | 135   | 22.8       | 2.67 |
| <b>Total</b> | 561 | 19.5       | 1.17 | 637   | 20.6       | 1.22 | 1198  | 20.0       | 0.85 |

\*\*An individual is considered pre-hypercholesterolemic if their blood total cholesterol level was 5.18 to less than 6.2 mmol/L.

**Table 56: Mean of measured total blood cholesterol**

| Age     | Men |      |                | Women |      |                | Total |      |                |
|---------|-----|------|----------------|-------|------|----------------|-------|------|----------------|
|         | N   | Mean | SE of the mean | N     | Mean | SE of the mean | N     | Mean | SE of the mean |
| 15 - 24 | 514 | 4.2  | 0.05           | 553   | 4.4  | 0.05           | 1067  | 4.3  | 0.04           |
| 25 - 34 | 483 | 4.7  | 0.06           | 683   | 4.7  | 0.05           | 1166  | 4.7  | 0.04           |
| 35 - 44 | 500 | 5.0  | 0.06           | 630   | 4.8  | 0.05           | 1130  | 4.9  | 0.04           |
| 45 - 54 | 344 | 5.1  | 0.08           | 438   | 5.0  | 0.07           | 782   | 5.0  | 0.05           |
| 55 - 64 | 214 | 4.9  | 0.09           | 220   | 5.1  | 0.09           | 434   | 5.0  | 0.06           |
| 65+     | 314 | 4.7  | 0.08           | 187   | 5.0  | 0.12           | 501   | 4.8  | 0.06           |

**Table 57: Vitamin D levels, men**

| Age     | Insufficient* |            |      | Sufficient* |            |      | Toxic levels* |            |      |
|---------|---------------|------------|------|-------------|------------|------|---------------|------------|------|
|         | N             | Weighted % | SE   | N           | Weighted % | SE   | N             | Weighted % | SE   |
| 15 - 24 | 228           | 48.8       | 2.97 | 274         | 50.6       | 2.97 | 5             | 0.62       | 0.36 |
| 25 - 34 | 175           | 39.7       | 3.14 | 296         | 59.8       | 3.14 | 2             | 0.54       | 0.41 |
| 35 - 44 | 169           | 34.8       | 2.93 | 320         | 64.7       | 2.94 | 3             | 0.50       | 0.31 |
| 45 - 54 | 112           | 32.4       | 3.56 | 229         | 67.6       | 3.56 | 0             | N/A        | N/A  |
| 55 - 64 | 60            | 28.6       | 4.22 | 150         | 70.7       | 4.24 | 2             | 0.74       | 0.54 |
| 65+     | 62            | 20.5       | 3.06 | 239         | 77.2       | 3.18 | 10            | 2.35       | 1.05 |
| Total   | 806           | 40.6       | 1.60 | 1,508       | 58.8       | 1.60 | 22            | 0.60       | 0.19 |

\*Vitamin D insufficiency is considered at blood vitamin D level < 28 ng/mL, and sufficiency is considered at blood vitamin D levels between 28 and 107 ng/mL. Higher levels of blood vitamin D are considered toxic.

**Table 58: Vitamin D levels, women**

| Age     | Insufficient* |            |      | Sufficient* |            |      | Toxic levels* |            |      |
|---------|---------------|------------|------|-------------|------------|------|---------------|------------|------|
|         | N             | Weighted % | SE   | N           | Weighted % | SE   | N             | Weighted % | SE   |
| 15 - 24 | 371           | 72.4       | 2.55 | 184         | 27.5       | 2.55 | 2             | 0.1        | 0.08 |
| 25 - 34 | 372           | 59.0       | 2.83 | 285         | 40.1       | 2.82 | 8             | 0.9        | 0.38 |
| 35 - 44 | 340           | 59.1       | 2.76 | 270         | 39.6       | 2.74 | 11            | 1.2        | 0.54 |
| 45 - 54 | 203           | 51.9       | 3.47 | 213         | 46.6       | 3.47 | 12            | 1.5        | 0.58 |
| 55 - 64 | 87            | 47.1       | 5.47 | 125         | 51.1       | 5.43 | 3             | 1.8        | 1.24 |
| 65+     | 61            | 38.9       | 5.45 | 120         | 60.9       | 5.45 | 1             | 0.1        | 0.13 |
| Total   | 1,434         | 62.6       | 1.45 | 1197        | 36.6       | 1.45 | 37            | 0.7        | 0.15 |

\*Vitamin D insufficiency is considered at blood vitamin D level < 28 ng/mL, and sufficiency is considered at blood vitamin D levels between 28 and 107 ng/mL. Higher levels of blood vitamin D are considered toxic.

**Table 59: Consumption of vitamin D supplements**

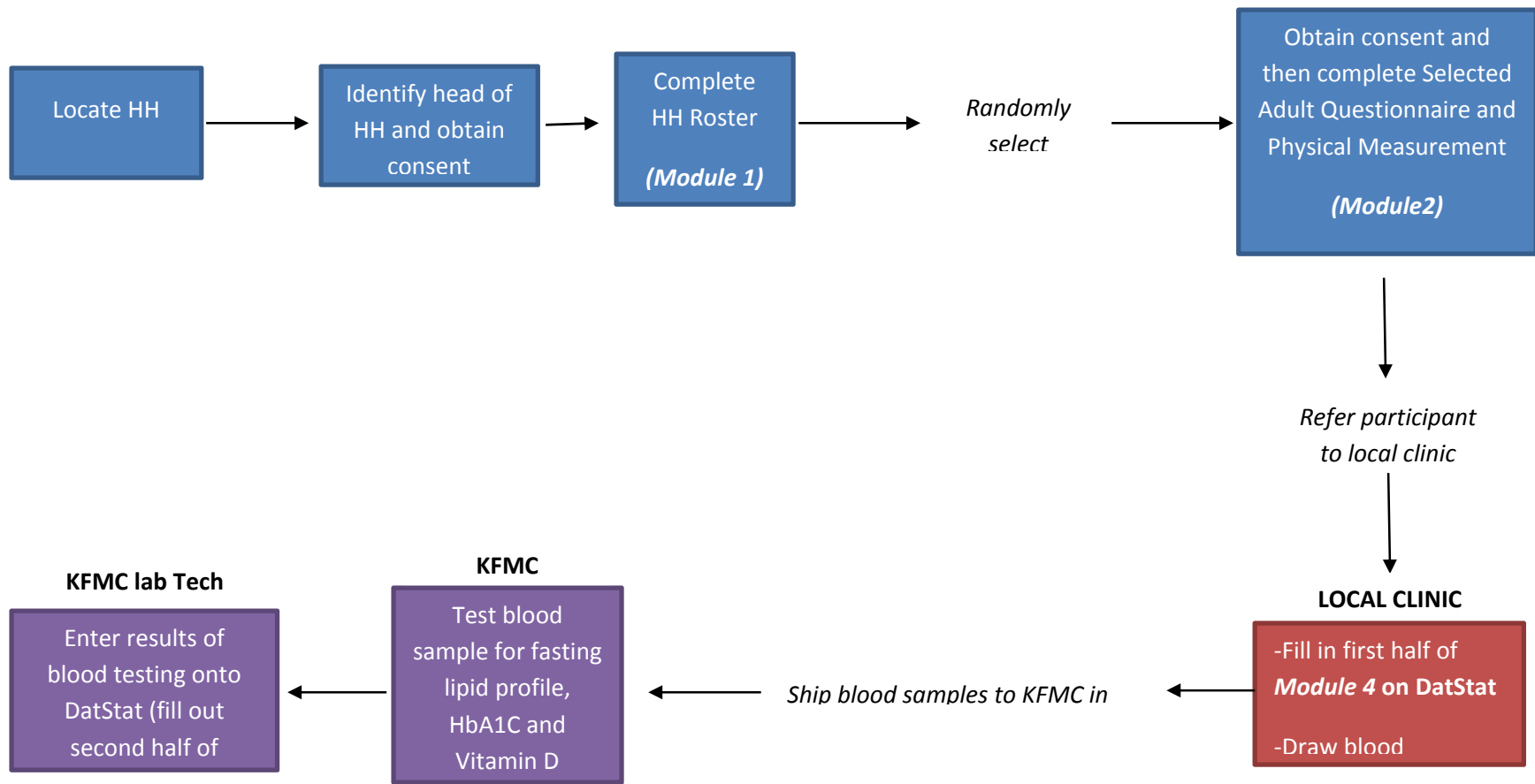
| Age     | Men |            |      | Women |            |      | Total |            |      |
|---------|-----|------------|------|-------|------------|------|-------|------------|------|
|         | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| 15 - 24 | 4   | 0.5        | 0.28 | 11    | 2.5        | 0.92 | 15    | 1.4        | 0.44 |
| 25 - 34 | 8   | 3.1        | 1.75 | 33    | 5.9        | 1.41 | 41    | 4.4        | 1.14 |
| 35 - 44 | 7   | 2.0        | 1.01 | 29    | 3.4        | 0.79 | 36    | 2.8        | 0.63 |
| 45 - 54 | 7   | 2.6        | 1.02 | 27    | 5.9        | 1.51 | 34    | 4.2        | 0.89 |
| 55 - 64 | 6   | 1.8        | 0.82 | 19    | 8.0        | 2.18 | 25    | 4.6        | 1.08 |
| 65+     | 7   | 1.5        | 0.73 | 8     | 5.1        | 2.45 | 15    | 2.9        | 1.04 |
| Total   | 39  | 1.6        | 0.44 | 127   | 4.2        | 0.55 | 166   | 2.8        | 0.35 |

**Table 60: Mean of measured blood vitamin D level**

| Age     | Men |      |                | Women |      |                | Total |      |                |
|---------|-----|------|----------------|-------|------|----------------|-------|------|----------------|
|         | N   | Mean | SE of the mean | N     | Mean | SE of the mean | N     | Mean | SE of the mean |
| 15 - 24 | 507 | 32.7 | 1.11           | 557   | 25.4 | 0.82           | 1,064 | 29.2 | 0.72           |
| 25 - 34 | 473 | 34.3 | 1.12           | 665   | 29.2 | 0.92           | 1,138 | 32.0 | 0.76           |
| 35 - 44 | 492 | 35.0 | 0.91           | 621   | 30.6 | 1.06           | 1,113 | 32.7 | 0.71           |
| 45 - 54 | 341 | 36.0 | 1.13           | 428   | 33.3 | 1.4            | 769   | 34.7 | 0.89           |
| 55 - 64 | 212 | 41.4 | 1.89           | 215   | 38   | 2.58           | 427   | 39.9 | 1.58           |
| 65+     | 311 | 46.7 | 1.77           | 182   | 38.9 | 2.48           | 493   | 43.8 | 1.5            |

**Table 61: Self-reported chronic conditions, by sex**

| Condition             | Men |            |      | Women |            |      | Total |            |      |
|-----------------------|-----|------------|------|-------|------------|------|-------|------------|------|
|                       | N   | Weighted % | SE   | N     | Weighted % | SE   | N     | Weighted % | SE   |
| Stroke                | 35  | 0.4        | 0.08 | 20    | 0.3        | 0.10 | 55    | 0.3        | 0.06 |
| Cardiac arrest        | 53  | 0.7        | 0.15 | 18    | 0.3        | 0.09 | 71    | 0.5        | 0.09 |
| Myocardial infarction | 52  | 0.7        | 0.14 | 19    | 0.3        | 0.07 | 71    | 0.5        | 0.08 |
| Heart failure         | 27  | 0.4        | 0.11 | 14    | 0.2        | 0.07 | 41    | 0.3        | 0.06 |
| Atrial fibrillation   | 20  | 0.3        | 0.10 | 20    | 0.3        | 0.08 | 40    | 0.3        | 0.06 |
| Renal failure         | 38  | 0.6        | 0.12 | 21    | 0.3        | 0.09 | 59    | 0.4        | 0.08 |
| Cancer                | 7   | 0.1        | 0.05 | 18    | 0.4        | 0.12 | 25    | 0.3        | 0.07 |
| COPD                  | 19  | 0.2        | 0.06 | 10    | 0.1        | 0.06 | 29    | 0.2        | 0.04 |
| Asthma                | 210 | 4.5        | 0.42 | 180   | 3.5        | 0.38 | 390   | 4.0        | 0.28 |



*If the interviewer couldn't start the survey, had to stop the survey for any reason or if the survey was completed by finishing Module 2, the interviewer will need to fill out **Module 3** to indicate whether the survey has stopped (and why), hasn't started (and why) or if it's complete.*

**Figure 1: Survey flow**

Appendix 1: Saudi Health Interview Survey 2013

# Kingdom of Saudi Arabia Health Interview Survey (SHIS)

Pilot for Chronic Non-Communicable Diseases  
2013



in collaboration with



Institute for Health Metrics and Evaluation

and the

**W** UNIVERSITY of WASHINGTON

## Color-Coding Legend

Highlighted text = Interviewer instructions \*

Highlighted text = Other programming notes

Highlighted text = Item for Declined Respondent Module

Highlighted text = Item for Proxy Respondent Module

\*Interviewer instructions are also in italics. Any italicized text that is not highlighted in yellow must be translated to Arabic. Interviewer instructions that are highlighted in yellow should NOT be translated to Arabic.



## **Module 1: Household roster**

### Household roster – Survey information and consent

| Module 1: Household Roster – Survey Information and Consent |   |                                      |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
|---|---|--------------------------------------|---|----------|-----|--|--------|--|--------|----|----------|--|--|------|--|--|--|---|
| Location and Date   | Response  | Code                                 |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| 1. Cluster/Centre/Village name                              |   | village_name_roster<br><br>STEPS I2  |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| 2. Interviewer ID (region – team number – member number)    | <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="padding: 0 5px;">-</td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="padding: 0 5px;">-</td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> </tr> <tr> <td style="text-align: center; font-size: small;">region</td> <td></td> <td style="text-align: center; font-size: small;">team #</td> <td></td> <td style="text-align: center; font-size: small;">member #</td> </tr> </table>   |                                      | - |          | -   |  | region |  | team # |    | member # | interviewer_id_rosterv1<br>interviewer_id_region_rv1<br>interviewer_id_team_rv1<br>interviewer_id_member_rv1 |  |      |  |  |  |   |
|   | -   |                                      | - |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| region  |   | team #                               |   | member # |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| 3. Visit 1 Date   | <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> </tr> <tr> <td colspan="2" style="text-align: center; font-size: small;">dd</td> <td colspan="2" style="text-align: center; font-size: small;">mm</td> <td colspan="4" style="text-align: center; font-size: small;">yyyy</td> </tr> </table> |                                      |   |          |     |  |        |  |        | dd |          | mm   |  | yyyy |  |  |  | v1_date_roster<br>v1_date_year_roster<br>v1_date_month_roster<br>v1_date_day_roster<br><br>STEPS I4 |
|   |   |                                      |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| dd  |   | mm                                   |   | yyyy     |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| 4. Start time of interview (24 hour clock)                  | <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="padding: 0 5px;">:</td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> </tr> <tr> <td style="text-align: center; font-size: small;">hrs</td> <td></td> <td style="text-align: center; font-size: small;">mins</td> </tr> </table>   |                                      | : |          | hrs |  | mins   | v1_start_time<br>v1_start_time_hour_roster<br>v1_start_time_min_roster<br><br>STEPS I7 |        |    |          |  |  |      |  |  |  |   |
|   | :   |                                      |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| hrs   |   | mins                                 |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| Consent, Interview Language and Name                        |   |                                      |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| 5. Consent has been read and obtained                       | Yes=1<br>No=0 <i>If no, end</i>   | consent_roster_v1<br><br>STEPS I5    |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| 6. First Name   | First name=1 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88  | firstname_roster_v1<br><br>STEPS I9  |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| Additional Information that may be helpful                  |   |                                      |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |
| 7. Contact phone number where possible                      | <i>Specify in open text field</i>   | telephone_roster_v1<br><br>STEPS I10 |   |          |     |  |        |  |        |    |          |  |  |      |  |  |  |   |

### Household roster

|                            |  |  |
|----------------------------|--|--|
| Module 1: Household Roster |  |  |
|----------------------------|--|--|

*Interviewer: Please collect information from the head of the household or the adult who has the most knowledge about the members of the household.*

|    |  |   |          |
|----|--|---|----------|
| 1. | <p><i>IF YOU ARE SPEAKING TO THE HEAD OF THE HOUSEHOLD:</i><br/>Beginning with you, what are the names of the usual members of this household?</p> <p><i>IF YOU ARE NOT SPEAKING TO THE HEAD OF THE HOUSEHOLD:</i><br/>Beginning with the head of the household, what are the names of the usual members of this household?</p> <p><i>IF THERE IS A BABY THAT HAS YET TO BE NAMED, WRITE "BABY."</i></p> | <p>Name of household member 1=1 <i>Specify in open text field</i><br/>                 Name of household member 2=2 <i>Specify in open text field</i><br/>                 Name of household member 3=3 <i>Specify in open text field</i><br/>                 ....<br/>                 ....<br/>                 ....<br/>                 Name of household member 30=30 <i>Specify in open text field</i></p> | ID_name  |
| 2. | <p><i>{Name of household member}</i><br/>The following questions are specifically about the individual named above.</p>  |   | ID_name1 |
| 3. | Is this person male or female?   | Male=1<br>Female=2  | ID_sex1  |
| 4. | <p>How old was this person on his/her last birthday?</p> <p><i>ENTER AGE IN YEARS AND MONTHS FOR ALL CHILDREN UNDER 5 YEARS. OTHERWISE, JUST ENTER AGE IN YEARS.</i></p>   | Years=YR <i>Specify in open text field</i><br>Months=MO <i>Specify in open text field</i><br>Don't know=DK<br>Decline to respond=NR   | ID_age1  |
| 5. | What is this person's date of birth?   | Date of birth=1 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88   | ID_dob1  |

|     |  |  |                         |
|-----|--|--|-------------------------|
| 6.  | What is the relationship of this person with the head of the household?<br>(SELECT ONE)  | Head of the household=1<br>Spouse=2<br>Biological child=3<br>Adopted / stepchild=4<br>Grandchild=5<br>Niece / nephew=6<br>Aunt / uncle=7<br>Cousin=8<br>Mother / father=9<br>Sister / brother=10<br>Daughter-in-law / son-in-law=11<br>Sister-in-law / brother-in-law=12<br>Grandparent=13<br>Mother-in-law / father-in-law=14<br>Other relative=15<br>Non-relative=16<br>Other, please specify=97 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88 | ID_relationship1        |
| 7.  | What is this person's current marital status?<br><i>INTERVIEWER: ONLY ASK IF THE PERSON IS OLDER THAN 15.</i><br>(SELECT ONE)  | Never been married=1<br>Married=2<br>Divorced=3<br>Separated=4<br>Widowed=5<br>Other, please specify=97 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88  | ID_marital_status1      |
| 8.  | <i>List the members of the household that have been named by the individual being interviewed.</i><br>Have we missed anybody in the household?                         | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88  | ID_missing_members      |
| 9.  | {Response:SELECTED_ADULT_CALC} has been selected to participate in the survey. Please make arrangements to interview this individual. Is the individual available now? | Yes=1 <i>If Yes, move onto Selected Adult Questionnaire</i><br>No=0 <i>If No, move onto Disposition Codes Survey</i>   | random_selection_result |
| 10. | <b>Please continue on to the Selected Adult Questionnaire.</b>   |  | epc1_sa                 |
| 11. | <b>Please continue to the Disposition Codes Survey to fill out the result of the visit.</b>  |  | epc2_dc                 |

*Interviewer: Randomly select one household member aged 15 years or older and **make arrangements to interview that individual.***

**Module 2a: Selected adult questionnaire for full survey**

### Survey Information and Consent – Full Survey

| Module 2a: Selected Adult Questionnaire – Survey Information and Consent |   |  |                            |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
|--|---|--|----------------------------|----------|------|--|--|-----|--------|------|---|----|----------|----|---|------|--|--|---|
| #  | Location and Date                           | Response   | Code                       |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 1  | Please enter the name of the selected adult |  | selected_adult_name        |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 2  | Cluster/Centre/Village name                 |  | village_name<br>STEPS I2   |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 3  | Interviewer ID                              | <table style="margin: auto; border: none;"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> </tr> <tr> <td style="text-align: center;">region</td> <td style="text-align: center;">-</td> <td style="text-align: center;">team #</td> <td style="text-align: center;">-</td> <td style="text-align: center;">member #</td> <td></td> </tr> </table>   |                            |          |      |  |  |     | region | -    | team #  | -  | member # |    | interviewer_id_visit1<br>interviewer_id_region_v1<br>interviewer_id_team_v1<br>interviewer_id_member_v1<br>STEPS I3 |      |  |  |   |
|  |   |  |                            |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| region   | -   | team #   | -                          | member # |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 4  | Visit 1 Date                                | <table style="margin: auto; border: none;"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> </tr> <tr> <td></td> <td style="text-align: center;">dd</td> <td></td> <td style="text-align: center;">mm</td> <td></td> <td style="text-align: center;">yyyy</td> <td></td> <td></td> </tr> </table> |                            |          |      |  |  |     |        |      |   | dd |          | mm |   | yyyy |  |  | v1_date<br>v1_date_year<br>v1_date_month<br>v1_date_day |
|  |   |  |                            |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
|  | dd  |  | mm                         |          | yyyy |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 5  | Start time of interview (24 hour clock)     | <table style="margin: auto; border: none;"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> </tr> <tr> <td></td> <td style="text-align: center;">hrs</td> <td style="text-align: center;">:</td> <td style="text-align: center;">mins</td> </tr> </table>   |                            |          |      |  |  | hrs | :      | mins | v1_start_time<br>v1_start_time_hour<br>v1_start_min<br>I7 |    |          |    |   |      |  |  |   |
|  |   |  |                            |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
|  | hrs   | :  | mins                       |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| Consent, Interview Language and Name                                     |   |  |                            |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 6  | Consent has been read and obtained          | Yes=1<br>No=0 <i>If no, end</i>  | consent_v1<br>I5           |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 7  | First Name                                  | First name=1 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88   | firstname_v1<br>I9         |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| Additional Information that may be helpful                               |   |  | consent-lang-name_add_info |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |
| 8  | Contact phone number where possible         | <i>Specify in open text field</i>  | telephone_v1<br>I10        |          |      |  |  |     |        |      |   |    |          |    |   |      |  |  |   |

**Selected Adult Questionnaire – Full Survey**

| Module 2a: Selected Adult Questionnaire        |  |   |                                  |
|--|--|---|----------------------------------|
| #  | Question   | Response  | Code                             |
| <b>Section 1: Sociodemographic Information</b> |  |   |                                  |
|  | Sex ( <i>Record Male / Female as observed</i> )  | Male=1<br>Female=2  | sex<br><br>STEPS C1              |
|  | How old are you?   | Age, in years=1 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88   | age<br><br>STEPS C3              |
|  | What is the <b>highest level of education</b> you have completed?<br><br><i>[INSERT COUNTRY-SPECIFIC CATEGORIES]</i><br><br>(SELECT ONE) | Can't read or write=1<br>Can read and write=2<br>Primary school completed=3<br>Intermediate school completed=4<br>High school completed=5<br>College/University completed=6<br>Post graduate degree=7<br>Technical training=8<br>Don't know=77<br>Decline to respond=88 | education<br><br>STEPS C5        |
|  | What is your <b>marital status</b> ?<br><br>(SELECT ONE)   | Never married=1<br>Currently married=2<br>Separated=3<br>Divorced=4<br>Widowed=5<br>Don't know=77<br>Decline to respond=88  | marital_status<br><br>STEPS C7   |
|  | Are your parents related (consanguineous marriage)?  | First degree cousins=1<br>Second degree cousins=2<br>Other relation between them=4<br>Not related=0<br>Don't know=77<br>Decline to respond=88   | parent_relationship<br><br>MOHSA |

|   |   |  |
|---|---|--|
| <p>Which of the following best describes your <b>main work</b> status over the past 12 months?</p> <p><b>[INSERT COUNTRY-SPECIFIC CATEGORIES]</b></p> <p>(SELECT ONE)</p>                         | <p>Government employee=1<br/> Non-government employee=2<br/> Self-employed=3<br/> Non-paid=4<br/> Student=5<br/> Homemaker=6<br/> Retired=7<br/> Unemployed (able to work)=8<br/> Unemployed (unable to work)=9<br/> Don't know=77<br/> Decline to respond=88</p>   | <p>work_status</p> <p>C8</p> <p>STEPS C8</p>       |
| <p>Can you give an <b>estimate</b> of the monthly household income if I read some options to you? Is it</p> <p><b>[INSERT QUINTILE VALUES IN LOCAL CURRENCY]</b></p> <p>(READ OPTIONS)</p>        | <p>Less than 3000 Riyal=1<br/> 3000 Riyal to less than 5000 Riyal=2<br/> 5000 Riyal to less than 7000 Riyal=3<br/> 7000 Riyal to less than 10000 Riyal=4<br/> 10000 Riyal to less than 15000 Riyal=5<br/> 15000 Riyal to less than 20000 Riyal=6<br/> 20000 to less than 30000=7<br/> 30000 Riyal or more=8</p> <p>Don't Know=77<br/> Decline to respond=88</p> | <p>income_estimate</p> <p>C11</p> <p>STEPS C11</p> |
| <p><b>#</b></p>   | <p><b>Question</b></p>  | <p><b>Response</b></p>                             |
| <p><b>Section 2: Tobacco Use</b></p>  |   |  |
| <p>Now I am going to ask you some questions about various health behaviours. This includes things like smoking, eating fruits and vegetables and physical activity. Let's start with tobacco.</p> |   |  |
| <p>Have you <b>ever smoked</b> any <b>tobacco products</b>, such as cigarettes, cigars or pipes or Shisha?</p> <p>(USE SHOWCARD)</p>  | <p>Yes=1<br/> No=0 <i>If No, go to tobacco_smokeless</i><br/> Don't know=77 <i>If Don't know, go to tobacco_smokeless</i><br/> Decline to respond=88 <i>If Decline to respond, go to tobacco_smokeless</i></p>  | <p>tobacco_smoker_ever</p> <p>STEPS T1a</p>        |
| <p>Do you <b>currently smoke</b> any <b>tobacco products</b>, such as cigarettes, cigars, pipes or Shisha?</p> <p>(USE SHOWCARD)</p>  | <p>Yes=1<br/> No=0 <i>If No, go to tobacco_age_start</i><br/> Don't know=77 <i>If Don't know, go to tobacco_age_start</i><br/> Decline to respond=88 <i>If Decline to respond, go to tobacco_age_start</i></p>  | <p>tobacco_smoker_current</p> <p>STEPS T1</p>      |
| <p>Do you currently smoke tobacco products, such as cigarettes, cigars, pipes, or Shisha, daily?</p>  | <p>Yes=1<br/> No=0 <i>If No, go to tobacco_age_start</i><br/> Don't know=77 <i>If Don't know, go to tobacco_age_start</i><br/> Decline to respond=88 <i>If Decline to respond, go to tobacco_age_start</i></p>  | <p>tobacco_smoker_daily</p>                        |



|   |   |  |
|---|---|--|
| <p>How old were you when you <b>first started</b> smoking daily?</p>  | <p>Age=1 <i>Specify in open text field</i><br/> Never smoked daily=0 <i>If Never smoked daily, go to tobacco_quit</i><br/> Don't know=77<br/> Decline to respond=88</p> | <p>tobacco_age_start<br/><br/> STEPS T3</p>    |
| <p>On average, how many <b>manufactured cigarettes</b> do you (did you) smoke each day?<br/><br/> <i>(USE SHOW CARD)</i><br/><br/> (SELECT ONE)</p>             | <p>Number of manufactured cigarettes per day=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>                                      | <p>tobacco_cigarettes<br/><br/> STEPS T5a</p>  |
| <p>On average, how many <b>hand-rolled cigarettes</b> do you (did you) smoke each day?<br/><br/> <i>(USE SHOW CARD)</i><br/><br/> (SELECT ONE)</p>              | <p>Number of hand-rolled cigarettes per day=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>                                       | <p>tobacco_cigarettes2<br/><br/> STEPS T5b</p> |
| <p>On average, how many <b>pipes full of tobacco</b> do you (did you) smoke each day?<br/><br/> <i>(USE SHOW CARD)</i><br/><br/> (SELECT ONE)</p>               | <p>Number of pipes full of tobacco per day=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>  | <p>tobacco_pipes<br/><br/> STEPS T5c</p>       |
| <p>On average, how many <b>cigars, cheroots, and/or cigarillos</b> do you (did you) smoke each day?<br/><br/> <i>(USE SHOW CARD)</i><br/><br/> (SELECT ONE)</p> | <p>Number of cigars, cheroots, and/or cigarillos per day=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>                          | <p>tobacco_cigars<br/><br/> STEPS T5d</p>      |
| <p>On average, how many <b>shisha</b> do you (did you smoke) each day?<br/><br/> <i>(USE SHOW CARD)</i><br/><br/> (SELECT ONE)</p>                              | <p>Amount of shisha per day=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>tobacco_shisha<br/><br/> STEPS X5</p>       |
| <p>On average, how many <b>sugar-flavored shisha</b> do you(did you smoke) each day?<br/><br/> <i>(USE SHOW CARD)</i><br/><br/> (SELECT ONE)</p>                | <p>Amount of sugar-flavored shisha per day=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>  | <p>tobacco_sugar_sisha<br/><br/> MOHSA</p>     |

|          |   |   |                                       |
|----------|---|---|---------------------------------------|
|          | On average, how many <b>other tobacco products</b> do you (did you smoke) each day?<br><i>(USE SHOW CARD)</i><br>(SELECT ONE)   | Type and number of other tobacco products per day=1 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88 | tobacco_other<br>STEPS T5e            |
|          | During the past 12 months, have you tried to <b>stop smoking</b> ?<br>(SELECT ONE)  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | tobacco_quit<br>STEPS T6a             |
|          | During any visit of a doctor or other health professional in the past 12 months, were you advised to quit smoking tobacco?<br>(SELECT ONE)  | Yes=1<br>No=0<br>No visit during the past 12 months=2<br>Don't know=77<br>Decline to respond=88                                 | tobacco_advice_quit<br>STEPS T6b      |
|          | Have you <b>ever</b> used <b>smokeless tobacco</b> products, such as [snuff, chewing tobacco, Swaika, or Medwakh]?<br><i>(USE SHOWCARD)</i>   | Yes=1<br>No=0 <i>If No, go to T13</i><br>Don't know=77<br>Decline to respond=88   | tobacco_smokeless<br>STEPS T9a        |
|          | Do you <b>currently use</b> any <b>smokeless tobacco</b> such as [snuff, chewing tobacco, Swaika, or Medwakh]?<br><i>(USE SHOWCARD)</i>   | Yes=1<br>No=0 <i>If No, go to T13</i><br>Don't know=77<br>Decline to respond=88   | tobacco_smokeless_current<br>STEPS T9 |
|          | Do you <b>currently use smokeless tobacco</b> products <b>daily</b> ?   | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | tobacco_smokeless_daily<br>STEPS T10  |
|          | During the past 7 days, on how many days did someone <b>in your home</b> smoke when you were present?   | Number of days=1 <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88                                    | tobacco_secondhand<br>STEPS T13       |
|          | During the past 7 days, on how many days did someone smoke in closed areas <b>in your workplace or school</b> (in the building, in a work area or a specific office) when you were present? | Number of days=1 <i>Specify in open text field</i><br>Don't know or don't work in a closed area=77<br>Decline to respond=88     | tobacco_work<br>STEPS T14             |
| <b>#</b> | <b>Question</b>   | <b>Response</b>   | <b>Code</b>                           |
|          | <b>Section 3: Diet</b>  |   |                                       |

|   |  |  |
|---|--|--|
| <p>The next questions ask about what you usually eat. I have a nutrition card here that shows you some examples of local food. Each picture represents the size of a serving. As you answer these questions please think of a typical week in the last year.</p>                  |  |  |
| <p>In a typical week, on how many days do you <b>eat fruit</b>?<br/>Please include fresh, frozen, or canned fruit, for example figs, grapes, oranges, bananas, or apples.</p> <p>Do not include juices, blended fruits, or dried fruits.</p> <p><i>(USE SHOWCARD)</i></p>         | <p>Number of days=1 <i>Specify in open text field, If Zero days, go to diet_juice</i><br/>Don't Know=77<br/>Decline to respond=88</p>      | <p>diet_fruit<br/>STEPS D1</p>               |
| <p>How many <b>servings</b> of fruit do you eat on <b>one</b> of those days?</p> <p><i>(USE SHOWCARD)</i></p>   | <p>Number of servings=1 <i>Specify in open text field</i><br/>Don't Know=77<br/>Decline to respond=88</p>                                  | <p>diet_fruit_servings<br/>STEPS D2</p>      |
| <p>In a typical week, on how many days do you <b>drink 100% fruit juices, including blended fruits</b>?</p> <p>Do not include "nectars".</p> <p><i>(USE SHOWCARD)</i></p>   | <p>Number of days=1 <i>Specify in open text field, If Zero days, go to diet_vegetables</i><br/>Don't Know=77<br/>Decline to respond=88</p> | <p>diet_juice<br/>DHQ2 4</p>                 |
| <p>How many <b>servings</b> of 100% fruit juices do you drink on <b>one</b> of those days?</p> <p><i>(USE SHOWCARD)</i></p>   | <p>Number of servings=1 <i>Specify in open text field</i><br/>Don't Know=77<br/>Decline to respond=88</p>                                  | <p>diet_juice_servings<br/>DHQ2 4a</p>       |
| <p>In a typical week, on how many days do you <b>eat vegetables</b>?</p> <p>Please include raw, cooked, canned, or frozen vegetables. Please do not include rice, potatoes, or cooked dried beans such as kidney beans, pinto beans, or lentils.</p> <p><i>(USE SHOWCARD)</i></p> | <p>Number of days=1 <i>Specify in open text field, If Zero days, go to diet_darkfish</i><br/>Don't Know=77<br/>Decline to respond=88</p>   | <p>diet_vegetables<br/>STEPS D3</p>          |
| <p>How many <b>servings</b> of vegetables do you eat on <b>one</b> of those days?</p> <p><i>(USE SHOWCARD)</i></p>  | <p>Number of servings=1 <i>Specify in open text field</i><br/>Don't Know=77<br/>Decline to respond=88</p>                                  | <p>diet_vegetables_servings<br/>STEPS D4</p> |

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| In a typical week, on how many days do you <b>eat dark meat fish</b> , such as salmon, tuna fish, mackerel, sardines, bluefish, or swordfish, whether fresh or canned?<br><br><i>(USE SHOWCARD)</i> | Number of days=1 <i>Specify in open text field, If Zero days, go to diet_otherfish</i><br>Don't Know=77<br>Decline to respond=88 | diet_darkfish<br><br>IHME MDCC / BRFFS<br>diet_darkfish |
| How many <b>servings</b> of dark meat fish do you eat on <b>one</b> of those days?<br><br><i>(USE SHOWCARD)</i>   | Number of servings=1 <i>Specify in open text field</i><br>Don't Know=77<br>Decline to respond=88                                 | diet_darkfish_servings<br><br>D19                       |
| In a typical week, how many days do you <b>eat other fish</b> ?   | Number of days=1 <i>Specify in open text field, If Zero days, go to diet_redmeat</i><br>Don't Know=77<br>Decline to respond=88   | diet_otherfish<br><br>STEPS D9c                         |
| How many <b>servings</b> of other fish do you eat on <b>one</b> of those days?  | Number of servings=1 <i>Specify in open text field</i><br>Don't Know=77<br>Decline to respond=88                                 | diet_otherfish_servings<br><br>STEPS D10c               |
| In a typical week, how many days do you <b>eat red meat</b> ?   | Number of days=1 <i>Specify in open text field, If Zero days, go to diet_poultry</i><br>Don't Know=77<br>Decline to respond=88   | diet_redmeat<br><br>STEPS D9a                           |
| How many <b>servings</b> of red meat do you eat on <b>one</b> of those days?  | Number of servings=1 <i>Specify in open text field</i><br>Don't Know=77<br>Decline to respond=88                                 | diet_redmeat_servings<br><br>STEPS D10a                 |
| In a typical week, how many days do you <b>eat poultry meat</b> (including chicken)?  | Number of days=1 <i>Specify in open text field, If Zero days, go to diet_shrimp</i><br>Don't Know=77<br>Decline to respond=88    | diet_poultry<br><br>STEPS D9b                           |
| How many <b>servings</b> of poultry meat (including chicken) do you eat on <b>one</b> of those days?  | Number of servings=1 <i>Specify in open text field</i><br>Don't Know=77<br>Decline to respond=88                                 | diet_poultry_servings<br><br>STEPS D10b                 |
| In a typical week, how many days do you eat shrimp?   | Number of days=1 <i>Specify in open text field, If Zero days, go to diet_procmear</i><br>Don't Know=77<br>Decline to respond=88  | diet_shrimp<br><br>MOHSA                                |
| How many servings of shrimp do you eat on one of those days?  | Number of servings=1 <i>Specify in open text field</i><br>Don't Know=77<br>Decline to respond=88                                 | diet_shrimp_servings<br><br>MOHSA                       |

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| <p>In a typical week, how many days do you <b>eat processed meats</b> such as sausage, or other packaged cold cuts, lunch meats, or deli meats?</p> <p>Processed meats are meats preserved by smoking, curing, or salting, or by the addition of preservatives. Examples include: pastrami, salami, bologna, other packaged lunch meats or deli meats, sausages, bratwursts, frankfurters, and hot dogs. Please think about all forms of processed meats. Please think about all meals and snacks including breakfast, lunch, and dinner and food consumed at home and away from home.</p> <p><i>(USE SHOWCARD)</i></p> | <p>Number of days=1 <i>Specify in open text field, If Zero days, go to diet_procfood</i><br/> Don't Know=77<br/> Decline to respond=88</p> | <p>diet_procmeat<br/> IHME MDCC / BRFFS<br/> diet_procmeat</p> |
| <p>How many <b>servings</b> of processed meats do you eat on <b>one</b> of those days?</p> <p><i>(USE SHOWCARD)</i></p>   | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                                | <p>diet_procmeat_servings<br/> D21</p>                         |
| <p>In a typical week, how many days do you <b>eat other processed foods</b>, such as fast foods, canned foods, packaged entrees, or soup?</p> <p><i>(USE SHOWCARD)</i></p>  | <p>Number of days=1 <i>Specify in open text field, If Zero days, go to diet_eggs</i><br/> Don't Know=77<br/> Decline to respond=88</p>     | <p>diet_procfood<br/> IHME MDCC / BRFFS<br/> diet_procfood</p> |
| <p>How many <b>servings</b> of other processed foods do you eat on <b>one</b> of those days?</p> <p><i>(USE SHOWCARD)</i></p>   | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                                | <p>diet_procfood_servings</p>                                  |
| <p>In a typical week, how many days do you <b>eat eggs</b>?</p>   | <p>Number of days=1 <i>Specify in open text field, If Zero, go to diet_nuts</i><br/> Don't Know=77<br/> Decline to respond=88</p>          | <p>diet_eggs<br/> STEPS D9d</p>                                |
| <p>How many <b>servings</b> of eggs do you eat on <b>one</b> of those days?</p>   | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                                | <p>diet_eggs_servings<br/> D10d<br/> STEPS D10d</p>            |
| <p>Not including peanut butter, in a typical week, on how many days do you <b>eat peanuts, almonds, walnuts, or any other nuts and seeds</b>?</p> <p><i>(USE SHOWCARD)</i></p>  | <p>Number of days=1 <i>Specify in open text field, If Zero days, go to diet_milk</i><br/> Don't Know=77<br/> Decline to respond=88</p>     | <p>diet_nuts<br/> IHME MDCC / NCI / DHQ<br/> diet_nuts</p>     |

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| <p>How many <b>servings</b> of nuts and seeds do you eat on <b>one</b> of those days?</p> <p>Please consider a serving to be a 40 grams of nuts or seeds.</p> <p><i>(USE SHOWCARD)</i></p> | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                         | <p>diet_nuts_servings</p>                   |
| <p>In a typical week, how many days do you <b>drink milk</b>?</p>  | <p>Number of days=1 <i>Specify in open text field, If Zero, go to diet_laban</i><br/> Don't Know=77<br/> Decline to respond=88</p>  | <p>diet_milk<br/> STEPS D11a</p>            |
| <p>How many <b>servings</b> of milk do you usually drink on <b>one</b> of those days?</p>  | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                         | <p>diet_milk_servings<br/> STEPS D12a</p>   |
| <p>In a typical week, how many days do you <b>consume laban</b>?</p>   | <p>Number of days=1 <i>Specify in open text field, If Zero, go to diet_yogurt</i><br/> Don't Know=77<br/> Decline to respond=88</p> | <p>diet_laban<br/> STEPS D11b</p>           |
| <p>How many <b>servings</b> of laban do you usually consume on <b>one</b> of those days?</p>   | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                         | <p>diet_laban_servings<br/> STEPS D12b</p>  |
| <p>In a typical week, how many days do you <b>eat yogurt</b>?</p>  | <p>Number of days=1 <i>Specify in open text field, If Zero, go to diet_labneh</i><br/> Don't Know=77<br/> Decline to respond=88</p> | <p>diet_yogurt<br/> STEPS D11c</p>          |
| <p>How many <b>servings</b> of yogurt do you usually consume on <b>one</b> of those days?</p>  | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                         | <p>diet_yogurt_servings<br/> STEPS D12c</p> |
| <p>In a typical week, how many days do you <b>consume labneh</b>?</p>  | <p>Number of days=1 <i>Specify in open text field, If Zero, go to diet_cheese</i><br/> Don't Know=77<br/> Decline to respond=88</p> | <p>diet_labneh<br/> STEPS D11d</p>          |
| <p>How many <b>servings</b> of labneh do you usually consume on <b>one</b> of those days?</p>  | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                         | <p>diet_labneh_servings<br/> STEPS D12d</p> |
| <p>In a typical week, how many days do you <b>eat cheese</b>?</p>  | <p>Number of days=1 <i>Specify in open text field, If Zero, go to diet_soda</i><br/> Don't Know=77<br/> Decline to respond=88</p>   | <p>diet_cheese<br/> STEPS D11e</p>          |
| <p>How many <b>servings</b> of cheese do you usually eat on <b>one</b> of those days?</p>  | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>                         | <p>diet_cheese_servings<br/> STEPS D12e</p> |

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| <p>In a typical week, how many days do you <b>drink regular soda or pop that contains sugar, sweetened iced teas, sports drinks, or fruit drinks</b>?</p> <p>Do not include diet soda, sugar-free drinks, or 100% pure fruit juice.</p> <p><i>(USE SHOWCARD)</i></p> | <p>Number of days=1 <i>Specify in open text field, If Zero days, go to diet_fat</i><br/> Don't Know=77<br/> Decline to respond=88</p>  | <p>diet_soda<br/> IHME MDCC / NHANES<br/> 2009<br/> diet_soda</p> |
| <p>How many <b>servings</b> of sugar-sweetened beverages do you drink on <b>one</b> of those days?</p> <p><i>(USE SHOWCARD)</i></p>  | <p>Number of servings=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>  | <p>diet_soda_servings</p>   |
| <p>What type of <b>oil or fat is most often</b> used for meal preparation in your household?</p> <p><i>(USE SHOWCARD)</i></p> <p>(SELECT ONE)</p>  | <p>Vegetable oil=1<br/> Olive oil=2<br/> Butter or ghee=3<br/> Margarine=4<br/> Other, please specify=5 <i>If Other, specify in open text field</i><br/> None in particular=6<br/> None used=7<br/> Don't know=77<br/> Decline to respond=88</p> | <p>diet_fat, diet_fatother<br/> STEPS D5, D5other</p>             |
| <p>What kind of <b>dairy products</b> do you <b>usually</b> use?</p> <p>(SELECT ONE)</p>   | <p>Full fat=1<br/> Low fat=2<br/> Nonfat=3<br/> No preference=4<br/> Don't know=77<br/> Decline to respond=88</p>  | <p>diet_dairy<br/> STEPS D13</p>                                  |
| <p>What kind of bread do you usually eat?</p> <p>(SELECT ONE)</p>  | <p>White=1<br/> Brown=2<br/> Saudi-specific bread=3<br/> Don't know=77<br/> Decline to respond=88</p>  | <p>diet_bread<br/> STEPS D15</p>                                  |
| <p>In a typical week, how many meals do you eat that were <b>not prepared at a home</b>? By meal, I mean breakfast, lunch and dinner.</p>  | <p>Number of meals=1 <i>Specify in open text field</i><br/> Don't Know=77<br/> Decline to respond=88</p>   | <p>diet_meals_out<br/> STEPS D6</p>                               |
| <p>In a typical week, how many days do you eat <b>fast food</b>?</p>   | <p>Number of meals=1 <i>Specify in open text field, must be &lt;=diet_meals_out.number</i><br/> Don't Know=77<br/> Decline to respond=88</p>   | <p>diet_fastfood<br/> STEPS D7</p>                                |
| <p>What do you think about fast food?</p>  | <p>Healthy food=1<br/> Not healthy=2<br/> Don't Know=77<br/> Decline to respond=88</p>   | <p>diet_fastfood_healthy<br/> STEPS D8</p>                        |
| <p><b>#</b></p>  | <p><b>Question</b></p>   | <p><b>Response</b></p>  |
| <p><b>#</b></p>  | <p><b>Question</b></p>   | <p><b>Code</b></p>  |

| Section 4: General Health Status and Functional Health Status  |  |   |
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| Next are some questions about your general health including some questions about specific physical symptoms you may have experienced, your ability to do different daily activities, and how you have been feeling. Although some of these questions may seem similar, it is important that we ask them all. |  |   |
| <p>In general, would you say your health is excellent, very good, good, fair, or poor?</p> <p><i>INTERVIEWER: If respondent asks about timeframe, say "Please answer according to how you have been during the past 30 days."</i></p> <p>(SELECT ONE)</p>  | <input type="checkbox"/> 1=Excellent<br><input type="checkbox"/> 2=Very good<br><input type="checkbox"/> 3=Good<br><input type="checkbox"/> 4=Fair<br><input type="checkbox"/> 5=Poor<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond | <p>health1<br/> declined1<br/> proxy1<br/> PROMIS<br/> GLOBAL1</p>                                  |
| <p>Compared with 12 months ago, would you say your health in general is now better, worse, or about the same?</p> <p>(SELECT ONE)</p>  | <input type="checkbox"/> 3=Better<br><input type="checkbox"/> 1=Worse<br><input type="checkbox"/> 2=About the same<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond  | <p>health2<br/> declined2<br/> proxy2<br/> IHME<br/> NHANES 2009<br/> WAHS<br/> SF-36<br/> NHIS</p> |
| <p>Now thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?</p> <p>(SELECT ONE)</p>   | <input type="checkbox"/> Enter number of days: ____<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond   | <p>physhealth<br/> BRFSS 2011</p>   |
| <p>During the past 12 months, about how many days did you miss work at a job or business because of illness or injury? (Do not include maternity leave.)</p> <p>(SELECT ONE)</p>   | <input type="checkbox"/> Enter number of days: ____<br><input type="checkbox"/> 995=Do not work<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88=Decline to respond  | <p>health3<br/> declined3<br/> proxy3<br/> IHME<br/> NHIS 2010</p>                                  |
| <p>Do you now have any health problem that requires you to use special equipment, such as a cane, a wheelchair, a special bed, or a special telephone?</p> <p>(SELECT ONE)</p>   | <input type="checkbox"/> 1=Yes<br><input type="checkbox"/> 0=No<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond   | <p>health4<br/> declined4<br/> proxy4<br/> NHANES PFQ.090<br/> NHIS 2010</p>                        |



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| <p>Does your health now limit you in doing <i>vigorous</i> activities, such as running, lifting heavy objects, or participating in strenuous sports?</p> <p>...Not at all, very little, somewhat, quite a lot, or can you not do these activities because of your health?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Not at all<br/> <input type="checkbox"/> 2=Very little<br/> <input type="checkbox"/> 3=Somewhat<br/> <input type="checkbox"/> 4=Quite a lot<br/> <input type="checkbox"/> 5=Cannot do <i>(skip to # / physfxn4)</i><br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>                    | <p>physfxn1<br/>IHME<br/>PROMIS PFA1</p> |
| <p>Are you able to climb up five steps?</p> <p>...Without any difficulty, with a little difficulty, with some difficulty, with much difficulty, or are you unable to do this?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Without any difficulty<br/> <input type="checkbox"/> 2=With a little difficulty<br/> <input type="checkbox"/> 3=With some difficulty<br/> <input type="checkbox"/> 4=With much difficulty<br/> <input type="checkbox"/> 5=Unable to do<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p> | <p>physfxn4<br/>PROMIS PFB10</p>         |
| <p>During the past 30 days, how difficult was it to perform your work or house activities?</p> <p>...Without any difficulty, with a little difficulty, with some difficulty, with much difficulty, or are you unable to do this?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Without any difficulty<br/> <input type="checkbox"/> 2=With a little difficulty<br/> <input type="checkbox"/> 3=With some difficulty<br/> <input type="checkbox"/> 4=With much difficulty<br/> <input type="checkbox"/> 5=Unable to do<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p> | <p>phys_usual_activities<br/>MOHSA</p>   |
| <p>During the past 30 days, how difficult was it to perform any of the following activities: walking a short distance, standing from a seated position, standing for a short period of time, climbing one step of stairs?</p> <p>...Without any difficulty, with a little difficulty, with some difficulty, with much difficulty, or are you unable to do this?</p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Without any difficulty<br/> <input type="checkbox"/> 2=With a little difficulty<br/> <input type="checkbox"/> 3=With some difficulty<br/> <input type="checkbox"/> 4=With much difficulty<br/> <input type="checkbox"/> 5=Unable to do<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p> | <p>phys_heart_health<br/>MOHSA</p>       |
| <p>Next are some questions about specific symptoms you may have experienced.</p>  |   |  |

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| <p>During the past 30 days, have you had wheezing or whistling in your chest?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No <i>(skip to # / coughing1)</i><br/> <input type="checkbox"/> 77=Don'tknow <i>(skip to # / coughing1)</i><br/> <input type="checkbox"/> 88=Decline to respond <i>(skip to # / coughing1)</i></p> | <p>breathing1<br/> <br/> IHME<br/> NHANES 2009<br/> WHS 2002<br/> <br/> asthma</p> |
| <p><i>Show if # / breathing1==1</i></p> <p>During the past 30 days, how many attacks of wheezing or whistling have you had?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> ENTER NUMBER OF EPISODES: ____<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>  | <p>breathing2<br/> <br/> IHME<br/> NHANES 2009<br/> <br/> asthma</p>               |
| <p>Did you cough on most days for 3 consecutive months or more during the past year?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>  | <p>coughing1<br/> IHME<br/> NHANES 2009<br/> GOLD<br/> <br/> COPD</p>              |
| <p>Did you bring up phlegm on most days for 3 consecutive months or more during the past year?</p> <p><i>INTERVIEWER read if necessary: By phlegm, we mean mucus from the respiratory passage.</i></p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>  | <p>coughing2<br/> IHME<br/> NHANES 2009<br/> GOLD<br/> <br/> COPD</p>              |
| <p>Have you ever had sudden painless weakness on one side of your body that lasted for at least 24 hours?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>  | <p>stroke_sx1<br/> IHME<br/> Regards Q: Q1_3<br/> <br/> stroke</p>                 |
| <p>Have you ever had sudden numbness or a dead feeling on one side of your body?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>  | <p>stroke_sx2<br/> IHME<br/> Regards Q: Q1_4<br/> <br/> stroke</p>                 |

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| <p>Have you ever suddenly lost the ability to understand what people were saying or lost the ability to express yourself verbally or in writing for at least 24 hours?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p> | <p>stroke_sx3<br/> IHME<br/> Regards<br/> stroke</p>   |
| <p>These next questions are about your hearing.</p>  |   |  |
| <p>Do you have deafness or trouble hearing in one or both ears without the help of a hearing aid?</p> <p>(SELECT ONE)</p>  |   | <p>Yes=1<br/> No=0<br/> Don't know=77<br/> Decline to respond=88</p> <p>hearing1<br/> GC13 Q5034.</p>  |
| <p>Which statement best describes your hearing (without a hearing aid)?<br/> Would you say your hearing is excellent, good, that you have a little trouble, moderate trouble, a lot of trouble, or that you are deaf?</p> <p>(SELECT ONE)</p>      |   | <p>Excellent=1<br/> Good=2<br/> A little trouble=3<br/> Moderate trouble=4<br/> A lot of trouble=5<br/> Deaf=6<br/> Don't know=77<br/> Decline to respond=88</p> <p>hearing2<br/> NHANES 2009<br/> AUC.131</p> |
| <p>Now I would like to ask you questions about your vision. These questions are for all respondents regardless of whether or not you wear glasses or contact lenses. If you wear glasses or contact lenses, answer as if you are wearing them.</p> |   |  |
| <p>Do you wear glasses or contact lenses?</p> <p>(SELECT ONE)</p>  |   | <p>Yes=1<br/> No=0<br/> Don't know=77<br/> Decline to respond=88</p> <p>vision1<br/> WHS 2002</p>  |
| <p><i>{show if vision1==1}</i></p> <p>Please answer the following questions taking into account your glasses or contact lenses.</p>  |   |  |
| <p>In the last 30 days, how much difficulty did you have in seeing and recognizing a person you know across the road (i.e. from a distance of about 20 meters)?</p> <p>(SELECT ONE)</p>  |   | <p>None=1<br/> Mild=2<br/> Moderate=3<br/> Severe=4<br/> Extreme/Cannot do=5<br/> Don't know=77<br/> Decline to respond=88</p> <p>vision2<br/> WHS 2002</p>  |

|          |   |                 |   |                                  |
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|          | In the last 30 days, how much difficulty did you have in seeing and recognizing an object at arm's length or in reading?<br><br>(SELECT ONE)  |                 | None=1<br>Mild=2<br>Moderate=3<br>Severe=4<br>Extreme/Cannot do=5<br>Don't know=77<br>Decline to respond=88   | vision3<br>WHS 2002              |
| <b>#</b> | <b>Question</b>   | <b>Response</b> |   | <b>Code</b>                      |
|          | <b>Section 5: Physical Activity</b>   |                 |   |                                  |
|          | Next I am going to ask you about the time you spend doing different types of physical activity in a typical week. Please answer these questions even if you do not consider yourself to be a physically active person.  |                 |   |                                  |
|          | <b>Work</b>   |                 |   |                                  |
|          | Think first about the time you spend doing work. Think of work as the things that you have to do such as paid or unpaid work, study/training, household chores, harvesting food/crops, fishing or hunting for food, seeking employment. <i>[Insert other examples if needed]</i> . In answering the following questions 'vigorous-intensity activities' are activities that require hard physical effort and cause large increases in breathing or heart rate; 'moderate-intensity activities' are activities that require moderate physical effort and cause small increases in breathing or heart rate. |                 |   |                                  |
|          | Does your work involve vigorous-intensity activity that causes large increases in breathing or heart rate like <i>[carrying or lifting heavy loads, digging or construction work]</i> for at least 10 minutes continuously?<br><br><i>[INSERT EXAMPLES]</i><br><br><i>(USE SHOWCARD)</i><br><br>(SELECT ONE)  |                 | Yes=1<br>No=0 <i>If No, go to work_modactivity</i><br>Don't know=77 <i>If Don't know, go to work_modactivity</i><br>Decline to respond==88 <i>If Decline to respond, go to work_modactivity</i> | work_vigactivity<br><br>STEPS P1 |

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| <p>In a typical week, on how many days do you do vigorous-intensity activities as part of your work?</p> <p>(SELECT ONE)</p>  | <p>Number of days=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>work_vigactivity_days<br/> <br/> STEPS P2</p> |
| <p>How much time do you spend doing vigorous-intensity activities at work on a typical day?</p> <p>(SELECT ONE)</p>   | <p>Hours per day=1 <i>Specify in open text field</i><br/> Minutes per day=2 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>work_vigactivity_time<br/> <br/> STEPS P3</p> |
| <p>Does your work involve moderate-intensity activity, that causes small increases in breathing or heart rate such as brisk walking <i>[or carrying light loads]</i> for at least 10 minutes continuously?</p> <p><i>[INSERT EXAMPLES]</i></p> <p><i>(USE SHOWCARD)</i></p> <p>(SELECT ONE)</p>             | <p>Yes=1<br/> No=0 <i>If No, go to travel_walk10</i><br/> Don't know=77 <i>If Don't know, go to travel_walk10</i><br/> Decline to respond==88 <i>If Decline to respond, go to travel_walk10</i></p>       | <p>work_modactivity<br/> <br/> STEPS P4</p>      |
| <p>In a typical week, on how many days do you do moderate-intensity activities as part of your work?</p> <p>(SELECT ONE)</p>  | <p>Number of days=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>work_modactivity_days<br/> <br/> STEPS P5</p> |
| <p>How much time do you spend doing moderate-intensity activities at work on a typical day?</p> <p>(SELECT ONE)</p>   | <p>Hours per day=1 <i>Specify in open text field</i><br/> Minutes per day=2 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>work_modactivity_time<br/> <br/> STEPS P6</p> |
| <p><b>Travel to and from places</b></p>   |   |  |
| <p>The next questions exclude the physical activities at work that you have already mentioned.<br/> Now I would like to ask you about the usual way you travel to and from places. For example to work, for shopping, to the market, to your place of worship. <i>[Insert other examples if needed]</i></p> |   |  |
| <p>Do you walk for at least 10 minutes continuously to get to and from places?</p> <p>(SELECT ONE)</p>  | <p>Yes=1<br/> No=0 <i>If No, go to rec_vigactivity</i><br/> Don't know=77 <i>If Don't know, go to rec_vigactivity</i><br/> Decline to respond==88 <i>If Decline to respond, go to rec_vigactivity</i></p> | <p>travel_walk10<br/> <br/> STEPS P7</p>         |

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| <p>In a typical week, on how many days do you walk for at least 10 minutes continuously to get to and from places?</p> <p>(SELECT ONE)</p>   | <p>Number of days=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>travel_walk10_days<br/> <br/> STEPS P8</p>    |
| <p>How much time do you spend walking for travel on a typical day?</p> <p>(SELECT ONE)</p>   | <p>Hours per day=1 <i>Specify in open text field</i><br/> Minutes per day=2 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>travel_walk10_time<br/> <br/> STEPS P9</p>    |
| <p><b>Recreational activities</b></p>  |   |  |
| <p>The next questions exclude the work and transport activities that you have already mentioned.<br/> Now I would like to ask you about sports, fitness and recreational activities (leisure), <i>[Insert relevant terms]</i>.</p>   |   |  |
| <p>Do you do any vigorous-intensity sports, fitness or recreational (<i>leisure</i>) activities that cause large increases in breathing or heart rate like <i>[running or football]</i> for at least 10 minutes continuously?</p> <p><i>[INSERT EXAMPLES]</i></p> <p><i>(USE SHOWCARD)</i></p> <p>(SELECT ONE)</p> | <p>Yes=1<br/> No=0 <i>If No, go to rec_modactivity</i><br/> Don't know=77 <i>If Don't know, go to rec_modactivity</i><br/> Decline to respond==88 <i>If Decline to respond, go to rec_modactivity</i></p> | <p>rec_vigactivity<br/> <br/> STEPS P10</p>      |
| <p>In a typical week, on how many days do you do vigorous-intensity sports, fitness or recreational (<i>leisure</i>) activities?</p> <p>(SELECT ONE)</p>   | <p>Number of days=1 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>rec_vigactivity_days<br/> <br/> STEPS P11</p> |
| <p>How much time do you spend doing vigorous-intensity sports, fitness or recreational activities on a typical day?</p> <p>(SELECT ONE)</p>  | <p>Hours per day=1 <i>Specify in open text field</i><br/> Minutes per day=2 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>rec_vigactivity_time<br/> <br/> STEPS P12</p> |

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| <p>Do you do any moderate-intensity sports, fitness or recreational (<i>leisure</i>) activities that cause a small increase in breathing or heart rate such as brisk walking, [<i>swimming, volleyball</i>] for at least 10 minutes continuously?<br/>[<i>INSERT EXAMPLES</i>]</p> <p>(USE SHOWCARD)</p> <p>(SELECT ONE)</p>                                       | <p style="text-align: right;">Yes=1<br/>No=0 <i>If No, go to P16</i><br/>Don't know=77 <i>If Don't know, go to P 16</i><br/>Decline to respond=88 <i>If Decline to respond, go to P 16</i></p> | <p>rec_modactivity<br/><br/>STEPS P13</p>           |
| <p>In a typical week, on how many days do you do moderate-intensity sports, fitness or recreational (<i>leisure</i>) activities?</p> <p>(SELECT ONE)</p>   | <p style="text-align: right;">Number of days=1 <i>Specify in open text field</i><br/>Don't know=77<br/>Decline to respond=88</p>   | <p>rec_modactivity_days<br/><br/>STEPS P14</p>      |
| <p>How much time do you spend doing moderate-intensity sports, fitness or recreational (<i>leisure</i>) activities on a typical day?</p> <p>(SELECT ONE)</p>   | <p style="text-align: right;">Hours per day=1 <i>Specify in open text field</i><br/>Minutes per day=2 <i>Specify in open text field</i><br/>Don't know=77<br/>Decline to respond=88</p>        | <p>rec_modactivity_time<br/><br/>STEPS P15</p>      |
| <p><b>Sedentary behavior</b></p>   |  |   |
| <p>The following question is about sitting or reclining at work, at home, getting to and from places, or with friends including time spent sitting at a desk, sitting with friends, traveling in car, bus, train, reading, playing cards or watching television, but do not include time spent sleeping.</p> <p>[<i>INSERT EXAMPLES</i>]</p> <p>(USE SHOWCARD)</p> |  |   |
| <p>How much time do you usually spend sitting or reclining on a typical day?</p> <p>(SELECT ONE)</p>   | <p style="text-align: right;">Hours per day=1 <i>Specify in open text field</i><br/>Minutes per day=2 <i>Specify in open text field</i><br/>Don't know=77<br/>Decline to respond=88</p>        | <p>sitting<br/><br/>STEPS P16</p>                   |
| <p>In a typical week, how much time do you usually spend in front of the television or on the computer?</p>  | <p style="text-align: right;">Enter number of hours _____=1<br/>Don't know=77<br/>Decline to respond=88</p>  | <p>tv_comp_time<br/><br/>IHME MDCC tv_comp_time</p> |
| <p><b># Question</b></p>   | <p><b>Response</b></p>   | <p><b>Code</b></p>                                  |
| <p><b>Section 6: Access to and Utilization of Health Care</b></p>  |  |   |

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| <p>The next questions are about your access to health care and your utilization of health care services.</p>   |  |                        |
| <p>In what year did you last visit a doctor or other health professional for a <b>routine checkup</b>? A routine checkup is a general physical exam, not an exam for a specific injury, illness, or condition.</p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Enter year (YYYY): ____ <i>Specify in open text field</i></p> <p><input type="checkbox"/> 995=Never</p> <p><input type="checkbox"/> 77=Don't know</p> <p><input type="checkbox"/> 88=Decline to respond</p>  | <p>hc_checkup_yr</p>   |
| <p>How far away was the facility you attended from your home?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Enter distance (km): ____ <i>Specify in open text field</i></p> <p><input type="checkbox"/> 77=Don't know</p> <p><input type="checkbox"/> 88=Decline to respond</p>  | <p>hc_checkup_dist</p> |
| <p>How long did it take you to get there?</p> <p><i>Interviewer: If less than one hour, record minutes.</i></p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Enter number of hours: ____ <i>Specify in open text field</i></p> <p><input type="checkbox"/> 2=Enter number of minutes: ____ <i>Specify in open text field</i></p> <p><input type="checkbox"/> 77=Don't know</p> <p><input type="checkbox"/> 88=Decline to respond</p>                          | <p>hc_checkup_time</p> |
| <p>In what year did you last visit a <b>hospital</b> for medical attention for any reason?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Enter year (YYYY): ____ <i>Specify in open text field</i></p> <p><input type="checkbox"/> 995=I have never been to a hospital for medical attention. <i>If Never, go to hc_clinic_yr</i></p> <p><input type="checkbox"/> 77=Don't know</p> <p><input type="checkbox"/> 88=Decline to respond</p> | <p>hc_hosp_yr</p>      |
| <p>What was the type of the <b>hospital</b> that you last visited for medical attention for any reason?</p> <p>(SELECT ONE)</p>  | <p><i>{This is a dropdown list}</i></p> <p>Governmental(MOH)=1</p> <p>National Guard=2</p> <p>Armed Forces=3</p> <p>Military hospital=4</p> <p>Private hospital=5</p> <p>Other =6</p> <p>Don't know=77</p> <p>Decline to respond=88</p>  | <p>hc_hosp_type</p>    |
| <p>What was the reason for your last visit to a <b>hospital</b>?</p> <p>(SELECT ONE)</p>   | <p>Illness=1</p> <p>Injury=2</p> <p>Immunization=3</p> <p>Other preventive service=4</p> <p>Other, please specify=5 <i>If Other, specify in open text field</i></p> <p>Don't know=77</p> <p>Decline to respond=88</p>  | <p>hc_hosp_reason</p>  |



|   |  |                         |
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| <p>In what year did you last visit a <b>clinic</b> for medical attention for any reason?</p> <p>(SELECT ONE)</p>                    | <p><input type="checkbox"/> 1=Enter year (YYYY): ____ <i>Specify in open text field</i></p> <p><input type="checkbox"/> 995=I have never been to a clinic for medical attention. <i>If Never, go to hc_doctor_yr</i></p> <p><input type="checkbox"/> 77=Don't know</p> <p><input type="checkbox"/> 88=Decline to respond</p> | <p>hc_clinic_yr</p>     |
| <p>What was the type of the <b>clinic</b> that you last visited for medical attention for any reason?</p> <p>(SELECT ONE)</p>       | <p><i>{This is a dropdown list}</i></p> <p>Governmental (MOH)=1<br/> National Guard=2<br/> Armed Forces=3<br/> Military clinic=4<br/> Private clinic=5<br/> Other =6<br/> Don't know=77<br/> Decline to respond=88</p>   | <p>hc_clinic_type</p>   |
| <p>What was the reason for your last visit to a <b>clinic</b>?</p> <p>(SELECT ONE)</p>  | <p>Illness=1<br/> Injury=2<br/> Immunization=3<br/> Other preventive service=4<br/> Other, please specify=5 <i>If Other, specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>  | <p>hc_clinic_reason</p> |
| <p>In what year did you last visit a <b>doctor or other health professional</b> for any other reason?</p> <p>(SELECT ONE)</p>       | <p>Enter year: ____ <i>Specify in open text field</i></p> <p>995=I have never visited a doctor or other health professional. <i>If never, go to hc_usual_provider</i></p> <p>77=Don't know<br/> 88=Decline to respond</p>  | <p>hc_doctor_yr</p>     |
| <p>What was that reason?</p> <p>(SELECT ONE)</p>  | <p>Illness=1<br/> Injury=2<br/> Immunization=3<br/> Other preventive service=4<br/> Other, please specify=5 <i>If Other, specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>  | <p>hc_doctor_reason</p> |
| <p>How far away was the facility you attended from your home?</p> <p>(SELECT ONE)</p>   | <p>Enter distance (km): ____ <i>Specify in open text field</i></p> <p>Don't know=77<br/> Decline to respond=88</p>   | <p>hc_doctor_dist</p>   |
| <p>How long did it take you to get there?</p> <p><i>Interviewer: If less than one hour, record minutes.</i></p> <p>(SELECT ONE)</p> | <p>Enter number of hours: ____ <i>Specify in open text field</i></p> <p>Enter number of minutes: ____ <i>Specify in open text field</i></p> <p>Don't know=77<br/> Decline to respond=88</p>  | <p>hc_doctor_time</p>   |

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|          | Is there a clinic, doctor's office, or other place that you usually go to when you are sick or need advice about your health care?<br><br>(SELECT ONE)                     |                 | There is ONE place=1<br>There is MORE THAN ONE place=2<br>No=0<br>Don't know=77<br>Decline to respond=88  | hc_usual_provider<br>WAHS<br>NHANES<br>HUQ.030                |
|          | Breast Cancer  |                 |   |   |
|          | <i>Show if respondent is a woman (sex=2) age 20 or older (age.age&gt;=35 &amp; age.age&lt;120):</i>  |                 |   |   |
|          | Do you know what a self-breast examination is?<br><br>(SELECT ONE)   |                 | <input type="checkbox"/> 1=Yes<br><input type="checkbox"/> 0=No<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88=Refuse to respond                        | hc_breast_selfexam<br><br>MOHSA                               |
|          | How many times during the past 12 months have you self-examined your breasts?  |                 | <input type="checkbox"/> Number of times ____<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88=Refuse to respond  | hc_breast_selfexam1<br>hc_breast_selfexam1number<br><br>MOHSA |
|          | How many times during the past 12 months have you visited a doctor's office or other health professional for a (clinical) breast examination?                              |                 | <input type="checkbox"/> Number of times____<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88= Refuse to respond  | hc_breast_clinic<br>hc_breast_clinicnumber<br><br>MOHSA       |
|          | If you have children, how long did you breast-feed your last (or youngest) child?  |                 | <input type="checkbox"/> Number of breast-feeding months ____<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88=Refuse to respond                          | hc_breast_feeding<br>hc_breastfeedingmonths<br><br>MOHSA      |
|          | If you have ever had a mammogram, in what year did you last have a mammogram? A mammogram is a screening test for breast tumors and cancers using a special type of x-ray. |                 | <input type="checkbox"/> Enter year (YYYY): ____<br><input type="checkbox"/> 995=Never<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond | hc_mammogram_yr   |
| <b>#</b> | <b>Question</b>  | <b>Response</b> |   | <b>Code</b>   |
|          | <b>Section 7: Oral Health</b>  |                 |   |   |
|          | During the past 12 months how many times did you visit a dental clinic for a check up (without any dental problem)?<br><br>(SELECT ONE)                                    |                 | Never=0<br>Once=1<br>More than once=2<br>Don't know=77<br>Decline to respond=88   | oral_checkup<br><br>STEPS L1                                  |
|          | During the past 12 months how many times did you visit a dental clinic for a dental complaint?<br><br>(SELECT ONE)   |                 | Never=0<br>Once=1<br>More than once=2<br>Don't know=77<br>Decline to respond=88   | oral_complaint<br><br>STEPS L1a                               |

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|  | How many times do you brush your teeth using a brush and tooth paste?<br><br>(SELECT ONE)   |   | Twice a day, or more=3<br>Once a day=2<br>Less than once a day=1<br>Never=0   | oral_brush<br><br>STEPS L2              |
|  | How many times per day do you floss your teeth?   |   | Don't floss=0<br>Less than once per day=1<br>Once per day=2<br>2 or more times per day=3<br>Don't know=77<br>Refuse to respond=88 | oral_floss<br><br>MOHSA                 |
|  | How many times do you use Miswak to clean your teeth?<br><br>(SELECT ONE)   |   | Twice a day, or more=3<br>Once a day=2<br>Less than once a day=1<br>Never=0   | oral_miswak<br><br>STEPS L3             |
| <b>#</b>   | <b>Question</b>   | <b>Response</b>   |   | <b>Code</b>                             |
| <b>Section 8: History of Chronic Conditions</b>  |   |   |   |   |
| Now, we are asking about a variety of specific medical events that you may have experienced and medical conditions that you may have been diagnosed with in your lifetime. |   |   |   |   |
|  | Has a doctor or other health professional ever told you that you had a cerebral infarction, otherwise known as a stroke or brain attack?<br><br><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i><br><br>(SELECT ONE) | <input type="checkbox"/> 1=Yes<br><input type="checkbox"/> 0=No <i>(skip to # / cardiacarrest)</i><br><input type="checkbox"/> 77=Don'tknow <i>(skip to # / cardiacarrest)</i><br><input type="checkbox"/> 88=Decline to respond <i>(skip to # / cardiacarrest)</i>                             |   | stroke<br>declined21<br>proxy21<br>IHME |
|  | In what year did you first receive this diagnosis?<br><br>(SELECT ONE)  | <input type="checkbox"/> Enter year (YYYY): ____ <i>Specify in open field text</i><br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond   |   | stroke_dx_yr<br>IHME                    |
|  | During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?<br><br>(SELECT ONE)  | <input type="checkbox"/> 1=Yes, currently taking medication<br><input type="checkbox"/> 2=Yes, previously took medication, but not currently<br><input type="checkbox"/> 0=No, never took medication<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond |   | stroke_meds<br>IHME                     |

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| <p>Has a doctor or other health professional ever told you that you had a cardiac arrest, otherwise known as a cardiopulmonary arrest, circulatory arrest, or sudden death? (This is different from a heart attack. This would be a time when you were unconscious because your heart stopped suddenly, and you needed to be revived with CPR or defibrillation paddles.)</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No (skip to # / mi)<br/> <input type="checkbox"/> 77=Don'tknow (skip to # / mi)<br/> <input type="checkbox"/> 88=Decline to respond (skip to # / mi)</p>   | <p>cardiacarrest<br/> declined22<br/> proxy22<br/> IHME</p> |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): _____ Specify in open field text<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>   | <p>cardiacarrest_dx_yr<br/> IHME</p>                        |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication<br/> <input type="checkbox"/> 2=Yes, previously took medication, but not currently<br/> <input type="checkbox"/> 0=No, never took medication<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p> | <p>cardiacarrest_meds<br/> IHME</p>                         |
| <p>Has a doctor or other health professional ever told you that you had a myocardial infarction, otherwise known as a heart attack?</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No (skip to # / chd)<br/> <input type="checkbox"/> 77=Don'tknow (skip to # / chd)<br/> <input type="checkbox"/> 88=Decline to respond (skip to # / chd)</p>  | <p>mi<br/> declined23<br/> proxy23<br/> IHME</p>            |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): _____ Specify in open field text<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>   | <p>mi_dx_yr<br/> IHME</p>                                   |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication<br/> <input type="checkbox"/> 2=Yes, previously took medication, but not currently<br/> <input type="checkbox"/> 0=No, never took medication<br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p> | <p>mi_meds<br/> IHME</p>                                    |

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| <p>Has a doctor or other health professional ever told you that you had congestive heart failure, otherwise known as heart failure, cardiomyopathy or having a “weak” heart?</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes</p> <p><input type="checkbox"/> 0=No <i>(skip to # / afib)</i></p> <p><input type="checkbox"/> 77=Don'tknow <i>(skip to # / afib)</i></p> <p><input type="checkbox"/> 88=Decline to respond <i>(skip to # / afib)</i></p>  | <p>chf<br/>declined25<br/>proxy25<br/>IHME</p>  |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> Enter year (YYYY): ____ <i>Specify in open field text</i></p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>   | <p>chf_dx_yr<br/>IHME</p>                       |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes, currently taking medication</p> <p><input type="checkbox"/> 2=Yes, previously took medication, but not currently</p> <p><input type="checkbox"/> 0=No, never took medication</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p> | <p>chf_meds<br/>IHME</p>                        |
| <p>Has a doctor or other health professional ever told you that you had atrial fibrillation, otherwise known as irregular rhythm or “A-Fib”? (This is an irregular heart rhythm related to abnormal electrical conduction in the heart.)</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes</p> <p><input type="checkbox"/> 0=No <i>(skip to # / asthma)</i></p> <p><input type="checkbox"/> 77=Don'tknow <i>(skip to # / asthma)</i></p> <p><input type="checkbox"/> 88=Decline to respond <i>(skip to # / asthma)</i></p>  | <p>afib<br/>declined26<br/>proxy26<br/>IHME</p> |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> Enter year (YYYY): ____ <i>Specify in open field text</i></p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>   | <p>afib_dx_yr<br/>IHME</p>                      |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes, currently taking medication</p> <p><input type="checkbox"/> 2=Yes, previously took medication, but not currently</p> <p><input type="checkbox"/> 0=No, never took medication</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p> | <p>afib_meds<br/>IHME</p>                       |

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| <p>Has a doctor or other health professional ever told you that you had asthma, otherwise known as reactive airway disease?</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes</p> <p><input type="checkbox"/> 0=No (skip to # / copd)</p> <p><input type="checkbox"/> 77=Don'tknow (skip to # / copd)</p> <p><input type="checkbox"/> 88=Decline to respond (skip to # / copd)</p>   | <p>asthma<br/>declined27<br/>proxy27<br/>IHME</p> |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): _____ Specify in open field text</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>   | <p>asthma_dx_yr<br/>IHME</p>                      |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication</p> <p><input type="checkbox"/> 2=Yes, previously took medication, but not currently</p> <p><input type="checkbox"/> 0=No, never took medication</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p> | <p>asthma_meds<br/>IHME</p>                       |
| <p>During the last 12 months did you have an attack of asthma?</p> <p>(SELECT ONE)</p>   |  | <p>asthma_attack<br/>IHME<br/>STEPS S3</p>        |
| <p>During the past 12 months, has your asthma gotten worse?</p>  |  | <p>asthma_worsen<br/>MOHSA</p>                    |
| <p>During the past 12 months, how many times have you visited the hospital or emergency room because of worsening asthma symptoms?</p>   | <p><input type="checkbox"/> 1= Enter number of times: _____ Specify in open text field</p> <p><input type="checkbox"/> 0=Did not visit the hospital or ER</p> <p><input type="checkbox"/> 77=Don't know</p> <p><input type="checkbox"/> 88= Decline to respond</p>   | <p>asthma_hospital<br/>MOHSA</p>                  |
| <p>Has a doctor or other health professional ever told you that you had chronic obstructive pulmonary disease, otherwise known as COPD, emphysema, or chronic bronchitis?</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes</p> <p><input type="checkbox"/> 0=No (skip to # / dm)</p> <p><input type="checkbox"/> 77=Don'tknow (skip to # / dm)</p> <p><input type="checkbox"/> 88=Decline to respond (skip to # / dm)</p>   | <p>copd<br/>declined28<br/>proxy28<br/>IHME</p>   |

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| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): _____ <i>Specify in open field text</i></p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>  | <p>copd_dx_yr<br/>IHME</p>   |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication</p> <p><input type="checkbox"/> 2=Yes, previously took medication, but not currently</p> <p><input type="checkbox"/> 0=No, never took medication</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>                                     | <p>copd_meds<br/>IHME</p>  |
| <p>Have you ever had your blood sugar measured by a doctor or other health professional?</p> <p>(SELECT ONE)</p>   |  | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>bloodsugar<br/>STEPS H7</p> |
| <p>Has a doctor or other health professional ever told you that you had diabetes mellitus, otherwise known as diabetes, sugar diabetes, high blood glucose, or high blood sugar?</p> <p><i>If YES and respondent is female (c1==2): Was this only when you were pregnant?</i></p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes</p> <p><input type="checkbox"/> 2=Yes, but only during pregnancy <i>(skip to # / predm)</i></p> <p><input type="checkbox"/> 0=No <i>(skip to # / predm)</i></p> <p><input type="checkbox"/> 77=Don'tknow <i>(skip to # / predm)</i></p> <p><input type="checkbox"/> 88=Decline to respond <i>(skip to # / predm)</i></p> | <p>dm<br/>declined29<br/>proxy29<br/>IHME<br/>BRFSS</p>  |
| <p>What type of diabetes do you have?</p>  | <p><input type="checkbox"/> 1=Type 1</p> <p><input type="checkbox"/> 2=Type 2</p> <p><input type="checkbox"/> 77=I don't know</p> <p><input type="checkbox"/> 88=decline to repond</p>   | <p>dm_type<br/>MOHSA</p>   |
| <p>How old were you when you first received a diagnosis of diabetes mellitus?</p>  | <p><input type="checkbox"/> 1=Enter age: _____ <i>Specify in open text field</i></p> <p><input type="checkbox"/> 77=Don't know</p> <p><input type="checkbox"/> 88=Decline to respond</p>   | <p>dm_dx_age<br/>dm_dx_agetext<br/>MOHSA</p>   |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): _____ <i>Specify in open field text</i></p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>  | <p>dm_dx_yr<br/>IHME</p>   |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication</p> <p><input type="checkbox"/> 2=Yes, previously took medication, but not currently</p> <p><input type="checkbox"/> 0=No, never took medication</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>                                     | <p>dm_meds<br/>IHME</p>  |

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| In the last month did you visit a physician or other health professional for the management of your diabetes?<br><br>(SELECT ONE)   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_management<br><br>STEPS H12  |
| Please consider the following question with respect to the 6 types of treatment or advice below: Are you currently receiving any of the following treatments / advice for diabetes prescribed by a doctor or other health professional?<br><br>(SELECT ONE FOR EACH TYPE OF TREATMENT / ADVICE) |  |   | dm_treatment<br><br>STEPS       |
| Insulin   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_insulin<br><br>STEPS H9a     |
| Drugs (medication) that you have taken in the past two weeks  |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_medications<br><br>STEPS H9b |
| Special prescribed diet   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_diet<br><br>STEPS H9c        |
| Advice or treatment to lose weight  |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_loseweight<br><br>STEPS H9d  |
| Advice or treatment to stop smoking   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_quitsmoking<br><br>STEPS H9e |
| Advice to start or do more exercise   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_exercise<br><br>STEPS H9f    |
| Have you ever seen a traditional healer for diabetes or raised blood sugar?<br><br>(SELECT ONE)   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | dm_healer<br><br>STEPS H10      |



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| <p>Are you currently taking any herbal or traditional remedy for your diabetes?</p> <p>(SELECT ONE)</p>  |  | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>dm_herbalmed<br/>STEPS H11</p>       |
| <p>Do you test your blood sugar at home?</p> <p>(SELECT ONE)</p>   |  | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>dm_bloodsugar_home<br/>STEPS H12</p> |
| <p>Do you visit the diabetes clinic or your doctor for diabetes on a regular basis?</p> <p>(SELECT ONE)</p>  |  | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>dm_reg_clinicvisit<br/>STEPS H13</p> |
| <p>Is there a family history of diabetes, do your parents (father or mother), children, brothers, or sisters suffer from diabetes?</p> <p>(SELECT ONE)</p>   |  | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>dm_fmhx<br/>STEPS H14</p>            |
| <p>Has a doctor or other health professional ever told you that you had pre-diabetes mellitus, otherwise known as pre-diabetes, borderline diabetes, impaired fasting glucose, impaired glucose tolerance, or impaired sugar tolerance?</p> <p><i>Show if YES and respondent is female (c1==2):</i><br/>Was this only when you were pregnant?</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes<br/><input type="checkbox"/> 2=Yes, but only during pregnancy <i>(skip to # / renalfail)</i><br/><input type="checkbox"/> 0=No <i>(skip to # / renalfail)</i><br/><input type="checkbox"/> 77=Don'tknow <i>(skip to # / renalfail)</i><br/><input type="checkbox"/> 88=Decline to respond <i>(skip to # / renalfail)</i></p> | <p>predm<br/>declined30<br/>proxy30<br/>IHME<br/>BRFSS</p>  |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): ____ <i>Specify in open field text</i><br/><input type="checkbox"/> 77=Don'tknow<br/><input type="checkbox"/> 88=Decline to respond</p>   | <p>predm_dx_yr<br/>IHME</p>   |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication<br/><input type="checkbox"/> 2=Yes, previously took medication, but not currently<br/><input type="checkbox"/> 0=No, never took medication<br/><input type="checkbox"/> 77=Don'tknow<br/><input type="checkbox"/> 88=Decline to respond</p>   | <p>predm_meds<br/>IHME</p>  |

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| <p>Has a doctor or other health professional ever told you that you had chronic renal failure, otherwise known as chronic kidney failure, chronic renal disease, or chronic kidney disease?</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p>                                   | <p><input type="checkbox"/> 1=Yes</p> <p><input type="checkbox"/> 0=No (skip to # / hpn)</p> <p><input type="checkbox"/> 77=Don'tknow (skip to # / hpn)</p> <p><input type="checkbox"/> 88=Decline to respond (skip to # / hpn)</p>  | <p>renalfail<br/>declined31<br/>proxy31<br/>IHME</p>                   |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): ____ Specify in open field text</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>  | <p>renalfail_dx_yr<br/>IHME</p>  |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication</p> <p><input type="checkbox"/> 2=Yes, previously took medication, but not currently</p> <p><input type="checkbox"/> 0=No, never took medication</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p> | <p>renalfail_meds<br/>IHME</p>   |
| <p>Have you ever had your blood pressure measured by a doctor or other health professional?</p> <p>(SELECT ONE)</p>  | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p>  | <p>bloodpressure<br/>IHME<br/>STEPS H1</p>                             |
| <p>Has a doctor or other health professional ever told you that you had hypertension, otherwise known as high blood pressure?</p> <p>Show if YES and respondent is female (sex=-2):<br/>Was this only when you were pregnant?</p> <p><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i></p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes</p> <p><input type="checkbox"/> 2=Yes, but only during pregnancy (skip to # / hce)</p> <p><input type="checkbox"/> 0=No (skip to # / hce)</p> <p><input type="checkbox"/> 77=Don'tknow (skip to # / hce)</p> <p><input type="checkbox"/> 88=Decline to respond (skip to # / hce)</p> | <p>hpn<br/>declined32<br/>proxy32<br/>IHME<br/>BRFSS<br/>STEPS H2a</p> |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): ____ Specify in open field text</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>  | <p>hpn_dx_yr<br/>IHME</p>  |

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| Have you been told in the past 12 months?<br>(SELECT ONE)   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | hpn_dx_recent<br>STEPS H2b   |
| During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?<br>(SELECT ONE)  | <input type="checkbox"/> 1=Yes, currently taking medication<br><input type="checkbox"/> 2=Yes, previously took medication, but not currently<br><input type="checkbox"/> 0=No, never took medication<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88=Decline to respond |   | hpn_meds<br>IHME             |
| During the past 30 days, did you visit a physician or a health professional for the management of your blood pressure?<br>(SELECT ONE)  |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | hpn_management<br>STEPS H11  |
| Please consider the following questions with respect to the 5 types of treatment or advice below: Are you currently receiving any of the following treatments/advice for high blood pressure prescribed by a doctor or other health professional?<br>(SELECT ONE FOR EACH TYPE OF TREATMENT / ADVICE) |  |   | hpn_treatment<br>STEPS       |
| Drugs (medication) that you have taken in the past two weeks  |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | hpn_medications<br>STEPS H3a |
| Advice to reduce salt intake  |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | hpn_reducesalt<br>STEPS H3b  |
| Advice or treatment to lose weight  |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | hpn_loseweight<br>STEPS H3c  |
| Advice or treatment to stop smoking   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | hpn_quitsmoking<br>STEPS H3d |
| Advice to start or do more exercise   |  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88 | hpn_exercise<br>STEPS H3e    |

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| <p>Have you ever seen a traditional healer for raised blood pressure or hypertension?<br/>(SELECT ONE)</p>  |   | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>hpn_healer<br/>STEPS H4</p>    |
| <p>Are you currently taking any herbal or traditional remedy for your raised blood pressure?<br/>(SELECT ONE)</p>   |   | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>hpn_herbalmed<br/>STEPS H6</p> |
| <p>Is there a family history of hypertension or do one of your parents (father or mother), children, brothers or sisters suffer from high blood pressure (hypertension)?<br/>(SELECT ONE)</p>   |   | <p>Yes=1<br/>No=0<br/>Don't know=77<br/>Decline to respond=88</p> <p>hpn_fmhx<br/>STEPS H6</p>      |
| <p>Has a doctor or other health professional ever told you that you had hypercholesterolemia, otherwise known as high or abnormal blood cholesterol?<br/><i>INTERVIEWER: Do not accept self-diagnosed or diagnosed by a person who is not a doctor or other health professional.</i><br/>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes<br/><input type="checkbox"/> 0=No <i>(skip to caneve)</i><br/><input type="checkbox"/> 77=Don'tknow <i>(skip to caneve)</i><br/><input type="checkbox"/> 88=Decline to respond <i>(skip to caneve)</i></p>  | <p>hce<br/>declined33<br/>proxy33<br/>IHME</p>  |
| <p>In what year did you first receive this diagnosis?<br/>(SELECT ONE)</p>  | <p><input type="checkbox"/> Enter year (YYYY): _____ <i>Specify in open field text</i><br/><input type="checkbox"/> 77=Don'tknow<br/><input type="checkbox"/> 88=Decline to respond</p>   | <p>hce_dx_yr<br/>IHME</p>   |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?<br/>(SELECT ONE)</p>  | <p><input type="checkbox"/> 1=Yes, currently taking medication<br/><input type="checkbox"/> 2=Yes, previously took medication, but not currently<br/><input type="checkbox"/> 0=No, never took medication<br/><input type="checkbox"/> 77=Don'tknow<br/><input type="checkbox"/> 88=Decline to respond</p>  | <p>hce_meds<br/>IHME</p>  |
| <p>Has a doctor or other health professional ever told you that you had cancer or a malignancy of any kind?<br/>(SELECT ONE)</p>  | <p>Yes=1<br/>No=0 <i>Go to meds_chron_cond (if one of the medication questions in this section==yes) or go to N1a (if no medications taken in this section)</i><br/>Don't know=77 <i>Go to meds_chron_cond (if one of the medication questions in this section==yes) or N1a (if no medications taken in this section)</i><br/>Decline to respond=88 <i>Go to meds_chron_cond (if one of the medication questions in this section==yes) or N1a (if no medications taken in this section)</i></p> | <p>canev<br/>NHIS 2012<br/>CAN.130</p>  |

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| <p>What kind of cancer was it?</p> <p><i>Interviewer: Enter code for the first kind of cancer.</i></p> <p>(SELECT ONE)</p>      | <p>Bladder=01<br/> Blood=02<br/> Bone=03<br/> Brain=04<br/> Breast=05<br/> Cervix=06<br/> Colon=07<br/> Esophagus=08<br/> Gallbladder=09<br/> Kidney=10<br/> Larynx-Windpipe=11<br/> Leukemia=12<br/> Liver=13<br/> Lung=14<br/> Lymphoma=15<br/> Melanoma=16<br/> Mouth/Tongue/Lip=17<br/> Ovary=18<br/> Pancreas=19<br/> Prostate=20<br/> Rectum=21<br/> Skin (non-melanoma)=22<br/> Skin (don't know what kind)=23<br/> Soft tissue (muscle or fat)=24<br/> Stomach=25<br/> Testis=26<br/> Throat-Pharynx=27<br/> Thyroid=28<br/> Uterus=29<br/> Other, please specify=30 <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p> | <p>cankind<br/> NHIS 2012<br/> ANC.140</p> |             |
| <p>In what year did you first receive this diagnosis?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> Enter year (YYYY): _____ <i>Specify in open field text</i></p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>  | <p>can_dx_yr</p>                           |             |
| <p>During the past 30 days, or since your diagnosis, have you ever taken medication for this condition?</p> <p>(SELECT ONE)</p> | <p><input type="checkbox"/> 1=Yes, currently taking medication</p> <p><input type="checkbox"/> 2=Yes, previously took medication, but not currently</p> <p><input type="checkbox"/> 0=No, never took medication</p> <p><input type="checkbox"/> 77=Don'tknow</p> <p><input type="checkbox"/> 88=Decline to respond</p>   | <p>can_meds</p>                            |             |
| <p>#</p>  | <p>Question</p>  | <p>Response</p>                            | <p>Code</p> |

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| <p><b>Section 9: Inventory of Medications for Chronic Conditions</b><br/> <i>{only shown if respondent answered yes to one of the medication questions in section 8}</i></p>  |   |  |
| <p>You have indicated that you have taken medication for one or more of the conditions that we just discussed. Have you taken any of these medications in the past 30 days?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> 1=Yes<br/> <input type="checkbox"/> 0=No <i>If No, go to N1a</i><br/> <input type="checkbox"/> 77=Don'tknow <i>If Don't know, go to N1a</i><br/> <input type="checkbox"/> 88=Decline to respond <i>If Decline to respond, go to N1a</i></p> | <p>meds_chron_cond</p>   |
| <p><i>{only shown if respondent answered yes to one of the medication questions in section 8 &amp; responded yes to meds_chron_cond (meds_chron_cond==1)}</i></p> <p>Now, you will be asked specific questions about each of the medications that you have taken in the past 30 days for any of the chronic conditions mentioned in this survey. This includes any prescription medications or over-the-counter medications you might have used.</p> <p>Please gather all of these medications so we may review them together. Being able to refer to the information printed on the labels of your medication and supplement containers will help you to answer the following questions.</p> |   |  |
| <p>What is the name of the medication? If you have the medication container in front of you, please read the name of the medication that is printed on the container?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> Enter name of medication: ____ <i>(verify spelling, if possible)</i> <i>Specify in open text field</i><br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>                                   | <p>med_name1<br/> ...<br/> med_name10<br/> <br/> IHME MDCC</p>         |
| <p>What is the strength of this medication? If you have the medication container in front of you, please read the drug strength that is printed on the container. (For example, 10mg per tablet.)</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> Enter strength of medication: ____ <i>Specify in open text field</i><br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>   | <p>med_strength1<br/> ...<br/> med_strength10<br/> <br/> IHME MDCC</p> |
| <p>What is the main reason you were prescribed this medication?</p> <p>(SELECT ONE)</p>   | <p><input type="checkbox"/> Enter reason: ____ <i>Specify in open text field</i><br/> <input type="checkbox"/> 77=Don'tknow<br/> <input type="checkbox"/> 88=Decline to respond</p>   | <p>med_reason1<br/> ...<br/> med_reason10<br/> <br/> IHME MDCC</p>     |

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| <p>For how long have you been prescribed this medication?</p> <p>(SELECT ONE)</p>  | <input type="checkbox"/> Enter number of days: ____ <i>Specify in open text field</i><br><input type="checkbox"/> Enter number of weeks: ____ <i>Specify in open text field</i><br><input type="checkbox"/> Enter number of months: ____ <i>Specify in open text field</i><br><input type="checkbox"/> Enter number of years: ____ <i>Specify in open text field</i><br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond  | <p>med_dur1<br/>...<br/>med_dur10</p> <p>IHME MDCC</p>             |
| <p>Many patients find it difficult to take all their medications exactly as prescribed. In the past 30 days, how often did you use this medication?</p> <p>(SELECT ONE)</p>  | <input type="checkbox"/> 4=Every day<br><input type="checkbox"/> 3=Every other day<br><input type="checkbox"/> 2=At least once a week<br><input type="checkbox"/> 1=Less than once a week<br><input type="checkbox"/> 0=Never<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond   | <p>med_freq1<br/>...<br/>med_freq10</p> <p>IHME MDCC</p>           |
| <p>What are exact dosing instructions for this medication? If you have the medication container in front of you, please read the dosing instructions that are printed on the container. (For example, 1 pill twice a day.)</p> <p>(SELECT ONE)</p>                 | <input type="checkbox"/> Enter dosing instructions: ____ <i>Specify in open text field</i><br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond  | <p>med_doseinstr1<br/>...<br/>med_doseinstr10</p> <p>IHME MDCC</p> |
| <p>It can be very hard to follow dosing instructions exactly as prescribed. Below is a list of common reasons why people may not take their medications exactly as prescribed. Please let me know if any of these apply to you:</p> <p>(SELECT ALL THAT APPLY)</p> | <input type="checkbox"/> 1=I felt better<br><input type="checkbox"/> 2=I did not feel better<br><input type="checkbox"/> 3=I felt worse<br><input type="checkbox"/> 4=Medication made me feel better<br><input type="checkbox"/> 5=Medication did not make me feel better<br><input type="checkbox"/> 6=Medication made me feel worse<br><input type="checkbox"/> 7=Experienced side effects from medication<br><input type="checkbox"/> 8=Didn't like the taste of medication<br><input type="checkbox"/> 9=Forgot to take medication<br><input type="checkbox"/> 10=Did not understand the dosing instructions<br><input type="checkbox"/> 11=Medication is too expensive to take all the time<br><input type="checkbox"/> 12=Was unable to obtain a refill prescription<br><input type="checkbox"/> 13=Doctor or other health professional told me to stop<br><input type="checkbox"/> 14=Other reason <i>If Other, specify in open text field</i><br><input type="checkbox"/> 95=Not applicable. I take this medication exactly as prescribed<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond | <p>med_nonadhere1<br/>...<br/>med_nonadhere10</p> <p>IHME MDCC</p> |
| <p>Do you take another medication?</p> <p>(SELECT ONE)</p>   | <input type="checkbox"/> 1=Yes<br><input type="checkbox"/> 0=No<br><input type="checkbox"/> 77=Don'tknow<br><input type="checkbox"/> 88=Decline to respond   | <p>another_med1<br/>...<br/>another_med10</p> <p>IHME MDCC</p>     |

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| <p><b>{ SHOW IF another_med10==1 }</b><br/> Please list the names of any other <b>medications</b> that you used in the past 30 days. Do not include any medications that you told us about before.</p> <p>(SELECT ALL THAT APPLY)</p> | <input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> Enter name of medication: _____ (verify spelling, if possible)<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88=Decline to respond | <p>med_other1<br/> ...<br/> med_other10<br/> <br/> IHME MDCC</p> |
| <p>Who usually pays for your medications?</p> <p>(SELECT ONE)</p>   | <input type="checkbox"/> 1= Governmental health facility (medical center / hospital)<br><input type="checkbox"/> 2=Private health insurance<br><input type="checkbox"/> 3=Out-of-pocket<br><input type="checkbox"/> 4=Charity / donation<br><input type="checkbox"/> 77=Don't know<br><input type="checkbox"/> 88=Decline to respond   | <p>med_insurance</p>   |
| <p><b>Vitamin D</b></p>   |  |  |
| <p>How long are you usually exposed to direct sunlight during the week (in minutes)?</p>  | <p>1=Duration in minutes _____ <i>Specify in open text field</i><br/> 77=Don't know<br/> 88=Decline to respond</p>   | <p>sunlight<br/> sunlightmins</p>                                |
| <p>Do you take vitamin D supplements regularly?</p>   | <p>1= Yes<br/> 0=No<br/> 777=Don't know<br/> 999= Decline to respond</p>   | <p>vitamind</p>  |
| <p><b># Question</b></p>  | <p><b>Response</b></p>   | <p><b>Code</b></p>   |
| <p><b>Section 10: Miscellaneous Health Behaviors</b></p>  |  |  |
| <p>Do you know the telephone number for the Red Crescent?</p> <p>(SELECT ONE)</p>   | <p>Yes1<br/> No=0<br/> Don't know=77<br/> Decline to respond=88</p>  | <p>tel_red_crescent<br/> <br/> STEPS N1a</p>                     |
| <p>What is the telephone number for the Red Crescent?</p> <p>(SELECT ONE)</p>   | <p>Enter telephone number: _____ <i>Specify in open text field</i><br/> Don't know=77<br/> Decline to respond=88</p>   | <p>tel_num_red_crescent<br/> <br/> STEPS N1a</p>                 |
| <p>Do you know the telephone number for the Civil Defense?</p> <p>(SELECT ONE)</p>  | <p>Yes1<br/> No=0<br/> Don't know=77<br/> Decline to respond=88</p>  | <p>tel_civil_defense<br/> <br/> STEPS N1b</p>                    |



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| What is the telephone number for the Civil Defense?<br>(SELECT ONE)  | Enter telephone number: _____ <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88 | tel_num_civil_defense<br>STEPS N1b  |
| Do you know the telephone number for the Traffic Police?<br>(SELECT ONE)   | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | tel_traffic_police<br>STEPS N1v     |
| What is the telephone number for the Traffic Police?<br>(SELECT ONE)   | Enter telephone number: _____ <i>Specify in open text field</i><br>Don't know=77<br>Decline to respond=88 | tel_num_traffic_police<br>STEPS N1c |
| <i>If respondent is male (c1==1):</i><br>Have you ever had a driving license?<br>(SELECT ONE)                                      | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | driver_license<br>STEPS N2          |
| <i>If respondent is male (c1==1):</i><br>Do you talk on your mobile while driving using the handset?<br>(SELECT ONE)               | Never=1<br>Sometimes=2<br>Always=3<br>Don't drive=4<br>Don't know=77<br>Decline to respond=88             | driving_cellphone<br>STEPS N3       |
| <i>If respondent is male (c1==1):</i><br>Do you talk on your mobile while driving using some hands free accessory?<br>(SELECT ONE) | Never=1<br>Sometimes=2<br>Always=3<br>Don't drive=4<br>Don't know=77<br>Decline to respond=88             | driving_handfree<br>STEPS N4        |
| <i>If respondent is male (c1==1):</i><br>Do you follow speed limits while driving?<br>(SELECT ONE)                                 | Never=1<br>Sometimes=2<br>Always=3<br>Don't drive=4<br>Don't know=77<br>Decline to respond=88             | driving_speedlimit<br>STEPS N5      |
| <i>If respondent is male (c1==1):</i><br>Do you use seatbelts while driving?<br>(SELECT ONE)                                       | Never=1<br>Sometimes=2<br>Always=3<br>Don't drive=4<br>Don't know=77<br>Decline to respond=88             | driving_seatbelt<br>STEPS N6        |

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| Do you use seat belt while travelling in the front passenger seat?<br>(SELECT ONE) | Never=1<br>Sometimes=2<br>Always=3<br>Don't know=77<br>Decline to respond=88 | driving_seatbelt_front<br><br>STEPS N7 |
| Do you use seat belt while travelling in the back passenger seat?<br>(SELECT ONE)  | Never=1<br>Sometimes=2<br>Always=3<br>Don't know=77<br>Decline to respond=88 | driving_seatbelt_back<br><br>STEPS N8  |
| Do you have smoke detector installed in your house?                                | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88                      | house_smokedetector                    |

| Selected Adult Physical Measurements |                            |  |  |
|--------------------------------------|----------------------------|--|--|
| #                                    | Question                   | Response   | Code                                       |
| <b>Section 1: Anthropometry</b>      |                            |  |  |
| 2                                    | <b>Height Measurement:</b> |  | sec1_height                                |
| 2                                    | Height (in centimeters)    | Enter height (cm): <i>Specify in open text field</i><br>Declined measurement or could not measure participant's height=88                          | pe_height<br>pe_heightcm<br>M3<br>STEPS M3 |
| 2                                    | <b>Weight Measurement:</b> |  | sec1_weight                                |
| 2                                    | Weight (in kilograms)      | Enter weight (kg): <i>Specify in open text field</i><br>Too heavy for scale=2<br>Declined measurement or could not measure participant's height=88 | pe_weight<br>weightkg<br>M4<br>STEPS M4    |
| 2                                    | <b>Waist Measurement:</b>  |  | sec1_waist_hip_thigh                       |

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| 2   | Waist circumference (in centimeters)   | Enter waist circumference (cm): <i>Specify in open text field</i><br>Waist circumference was too large to measure=2<br>Declined measurement or could not measure participant's height=888 | pe_waist<br>pe_waistcm<br><br>M7<br><br>STEPS M7     |
| <b>Section 2: Blood Pressure, Heart Rate, and Respiration</b> |  |   |  |
| 2   | <b>Blood Pressure Reading 1:</b><br><i>Please have the selected adult seated in a chair and use his/her right arm. If another arm is used, please make a note of this.</i> |   | sec2_bp1   |
| 2   | Systolic blood pressure  | Enter systolic blood pressure (mmHg): <i>Specify in open text field</i><br>Declined measurement or systolic blood pressure not measured=88  | pe_sbp1<br>pe_sbp1mmhg<br><br>M11a<br><br>STEPS M11a |
| 2   | Diastolic blood pressure   | Enter diastolic blood pressure (mmHg): <i>Specify in open text field</i><br>Declined measurement or systolic blood pressure not measured=88   | pe_dbp1<br>pe_dbp1mmhg<br><br>M11b<br><br>STEPS M11b |
| 2   | <b>Blood Pressure Reading 2:</b><br><i>Please have the selected adult seated in a chair and use his/her right arm. If another arm is used, please make a note of this.</i> |   | sec2_bp2   |
| 2   | Systolic blood pressure  | Enter systolic blood pressure (mmHg): <i>Specify in open text field</i><br>Declined measurement or systolic blood pressure not measured=88  | pe_sbp2<br>pe_sbp2mmhg<br><br>M12a<br><br>STEPS M12a |
| 2   | Diastolic blood pressure   | Enter diastolic blood pressure (mmHg): <i>Specify in open text field</i><br>Declined measurement or systolic blood pressure not measured=88   | pe_dbp2<br>pe_dbp2mmhg<br><br>M12b<br><br>STEPS M12b |
| 2   | <b>Blood Pressure Reading 3:</b><br><i>Please have the selected adult seated in a chair and use his/her right arm. If another arm is used, please make a note of this.</i> |   | sec2_bp3   |

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|---|---|---|---|
| 2 | Systolic blood pressure   | Enter systolic blood pressure (mmHg): <i>Specify in open text field</i><br>Declined measurement or systolic blood pressure not measured=88  | pe_sbp3<br>pe_sbp3mmhg<br>M13a<br>STEPS M13a    |
| 2 | Diastolic blood pressure  | Enter diastolic blood pressure (mmHg): <i>Specify in open text field</i><br>Declined measurement or systolic blood pressure not measured=88 | pe_dbp3<br>pe_dbp3mmhg<br>M13b<br>STEPS M13b    |
| 2 | Notes on blood pressure readings, if any:   | <i>Specify in open text field</i>   | pe_bp_notes<br>M13c<br>IHME MDCC                |
| 2 | During the past two weeks, have you been treated for raised blood pressure with drugs (medication) prescribed by a doctor or other health professional?<br>(SELECT ONE) | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | pe_bp_meds<br>M14<br>STEPS M14                  |
| 2 | <b>Heart Rate Readings:</b>   |   | sec2_heart_rate                                 |
| 2 | Heart rate reading 1  | Enter beats per minute: <i>Specify in open text field</i><br>Declined measurement or heart rate not measured=88                             | pe_heart1<br>pe_heartbpm<br>M16a<br>STEPS M16a  |
| 2 | Heart rate reading 2  | Enter beats per minute: <i>Specify in open text field</i><br>Declined measurement or heart rate not measured=88                             | pe_heart2<br>pe_heartbpm<br>M16b<br>STEPS M16b  |
| 2 | Heart rate reading 3  | Enter beats per minute: <i>Specify in open text field</i><br>Declined measurement or heart rate not measured=88                             | pe_heart3<br>pe_heart3bpm<br>M16c<br>STEPS M16c |
| 2 | <b>Respiratory Rate:</b>  |   | sec2_resp_spo2_siro                             |

|   |                  |   |                                    |
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| 2 | Respiratory rate | Enter respiratory rate: <i>Specify in open text field</i><br>Declined measurement or respiratory rate not measured=88 | pe_respiratory<br>M17<br>IHME MDCC |
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## **Module 3: Disposition Codes**

### Disposition Codes

| Module 3: Disposition Codes         |   |  |   |
|-------------------------------------|---|--|---|
| #                                   | Question  | Response   | Code  |
| <b>Household Contact Attempt #1</b> |   |  |   |
|                                     | Interviewer ID                                    | _ _ _ . _ _ _ . _ _ _<br>region – team number – member   | interviewer_id_dc1<br>interviewer_id_region_dc1<br>interviewer_id_team_dc1<br>interviewer_id_member_dc1 |
|                                     | Interview date of Visit 1                         | _ _ _ / _ _ _ / _ _ _ _ _  | v1_date_dc<br>v1_date_year_dc<br>v1_date_month_dc<br>v1_date_year_dc                                    |
|                                     | End time of Visit 1                               | _ _ _ : _ _ _  | v1_end_time_dc<br>v1_end_time_hour_dc<br>v1_end_time_min_dc   |
|                                     | Disposition Code for Household Contact Attempt #1 | 1 = Revisit requested (enter date / time): <i>Specify in open text field</i><br>2 = Refusal by person who answered the door<br>3 = Household not the same<br>4 = Physically or mentally unable (of person who answered the door)<br>5 = No one at residence<br>6 = Unable to reach / gated area<br>7 = Unable to locate address<br>8 = Not a housing unit<br>9 = Vacant housing unit<br>10 = Other<br>0 = Complete <i>Skip to interviewer_id_finaldc</i> | hh_attempt_disposition_1  |
| <b>Household Contact Attempt #2</b> |   |  |   |
|                                     | Interviewer ID                                    | _ _ _ . _ _ _ . _ _ _<br>region – team number – member   | interviewer_id_dc2<br>interviewer_id_region_dc2<br>interviewer_id_team_dc2<br>interviewer_id_member_dc2 |
|                                     | Interview date of Visit 2                         | _ _ _ / _ _ _ / _ _ _ _ _  | v2_date_dc<br>v2_date_year_dc<br>v2_date_month_dc<br>v2_date_year_dc                                    |
|                                     | End time of Visit 2                               | _ _ _ : _ _ _  | v2_end_time_dc<br>v2_end_time_hour_dc<br>v2_end_time_min_dc   |

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|---|---|---|
| Disposition Code for Household Contact Attempt #2 | <p>1 = Revisit requested (enter date / time): <i>Specify in open text field</i><br/> 2 = Refusal by person who answered the door<br/> 3 = Household not the same<br/> 4 = Physically or mentally unable (of person who answered the door)<br/> 5 = No one at residence<br/> 6 = Unable to reach / gated area<br/> 7 = Unable to locate address<br/> 8 = Not a housing unit<br/> 9 = Vacant housing unit<br/> 10 = Other<br/> 0 = Complete <i>Skip to interviewer_id_finaldc</i></p> | hh_attempt_disposition_2  |
| <b>Household Contact Attempt #3</b>               |   |   |
| Interviewer ID                                    | <p>    .    .    <br/> region – team number – member</p>  | interviewer_id_dc3<br>interviewer_id_region_dc3<br>interviewer_id_team_dc3<br>interviewer_id_member_dc3 |
| Interview date of Visit 3                         | <p>    /    /    </p>   | v3_date_dc<br>v3_date_year_dc<br>v3_date_month_dc<br>v3_date_year_dc                                    |
| End time of Visit 3                               | <p>    :    </p>  | v3_end_time_dc<br>v3_end_time_hour_dc<br>v3_end_time_min_dc   |
| Disposition Code for Household Contact Attempt #3 | <p>1 = Revisit requested (enter date / time): <i>Specify in open text field</i><br/> 2 = Refusal by person who answered the door<br/> 3 = Household not the same<br/> 4 = Physically or mentally unable (of person who answered the door)<br/> 5 = No one at residence<br/> 6 = Unable to reach / gated area<br/> 7 = Unable to locate address<br/> 8 = Not a housing unit<br/> 9 = Vacant housing unit<br/> 10 = Other<br/> 0 = Complete <i>Skip to interviewer_id_finaldc</i></p> | hh_attempt_disposition_3  |
| <b>Household Contact Attempt #4</b>               |   |   |
| Interviewer ID                                    | <p>    .    .    <br/> region – team number – member</p>  | interviewer_id_dc4<br>interviewer_id_region_dc4<br>interviewer_id_team_dc4<br>interviewer_id_member_dc4 |
| Interview date of Visit 4                         | <p>    /    /    </p>   | v4_date_dc<br>v4_date_year_dc<br>v4_date_month_dc<br>v4_date_year_dc                                    |



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| End time of Visit 4                               | :  | v4_end_time_dc<br>v4_end_time_hour_dc<br>v4_end_time_min_dc   |
| Disposition Code for Household Contact Attempt #4 | 1 = Revisit requested (enter date / time): <i>Specify in open text field</i><br>2 = Refusal by person who answered the door<br>3 = Household not the same<br>4 = Physically or mentally unable (of person who answered the door)<br>5 = No one at residence<br>6 = Unable to reach / gated area<br>7 = Unable to locate address<br>8 = Not a housing unit<br>9 = Vacant housing unit<br>10 = Other<br>0 = Complete <i>Skip to interviewer_id_finaldc</i> | hh_attempt_disposition_4  |
| <b>Household Contact Attempt #5</b>               |  |   |
| Interviewer ID                                    | .    .<br>region – team number – member  | interviewer_id_dc5<br>interviewer_id_region_dc5<br>interviewer_id_team_dc5<br>interviewer_id_member_dc5 |
| Interview date of Visit 5                         | /    /   | v5_date_dc<br>v5_date_year_dc<br>v5_date_month_dc<br>v5_date_year_dc                                    |
| End time of Visit 5                               | :  | v5_end_time_dc<br>v5_end_time_hour_dc<br>v5_end_time_min_dc   |
| Disposition Code for Household Contact Attempt #5 | 1 = Revisit requested (enter date / time): <i>Specify in open text field</i><br>2 = Refusal by person who answered the door<br>3 = Household not the same<br>4 = Physically or mentally unable (of person who answered the door)<br>5 = No one at residence<br>6 = Unable to reach / gated area<br>7 = Unable to locate address<br>8 = Not a housing unit<br>9 = Vacant housing unit<br>10 = Other<br>0 = Complete <i>Skip to interviewer_id_finaldc</i> | hh_attempt_disposition_5  |
| <b>Household Contact Attempt #6</b>               |  |   |
| Interviewer ID                                    | .    .<br>region – team number – member  | interviewer_id_dc6<br>interviewer_id_region_dc6<br>interviewer_id_team_dc6<br>interviewer_id_member_dc6 |

|  |  |   |
|--|--|---|
| Interview date of Visit 6                                  | ____ / ____ / ____   | v6_date_dc<br>v6_date_year_dc<br>v6_date_month_dc<br>v6_date_year_dc  |
| End time of Visit 6  | ____ : ____  | v6_end_time_dc<br>v6_end_time_hour_dc<br>v6_end_time_min_dc   |
| Disposition Code for Household Contact Attempt #6          | 1 = Revisit requested (enter date / time): <i>Specify in open text field</i><br>2 = Refusal by person who answered the door<br>3 = Household not the same<br>4 = Physically or mentally unable (of person who answered the door)<br>5 = No one at residence<br>6 = Unable to reach / gated area<br>7 = Unable to locate address<br>8 = Not a housing unit<br>9 = Vacant housing unit<br>10 = Other<br>0 = Complete <i>Skip to interviewer_id_finaldc</i> | hh_attempt_disposition_6  |
| <b>Final Result of Interview (Final Disposition Codes)</b> |  |   |
| Interviewer ID   | ____ . ____ . ____<br>region – team number – member  | interviewer_id_finaldc<br>interviewer_id_region_finaldc<br>interviewer_id_team_finaldc<br>interviewer_id_member_finaldc   |
| Final date of interview                                    | ____ / ____ / ____   | final_disposition_visit_date<br>final_disposition_date_day<br>final_disposition_date_month<br>final_disposition_date_year |
| End time of final interview                                | ____ : ____  | final_disposition_end_time<br>final_disposition_time_hour<br>final_disposition_time_min                                   |

|  |                                 |  |                        |
|--|---------------------------------|--|------------------------|
|  | Final Result (Disposition Code) | <p style="text-align: center;"><i>Interview</i></p> <p style="text-align: center;">1 = Completed<br/>2 = Partial</p> <p style="text-align: center;"><i>Eligible, Non-Interview</i></p> <p style="text-align: center;">3 = Refusal<br/>4 = Break-off<br/>5 = No one at that residence<br/>6 = Respondent away / unavailable<br/>7 = Physically or mentally unable / incompetent</p> <p style="text-align: center;"><i>Unknown Eligibility, Non-Interview</i></p> <p style="text-align: center;">8 = Unable to reach / gated area<br/>9 = Unable to locate address</p> <p style="text-align: center;"><i>Not Eligible</i></p> <p style="text-align: center;">10 = Not a housing unit<br/>11 = Vacant housing unit<br/>12 = Other</p> | final_disposition_code |
|--|---------------------------------|--|------------------------|

## **Module 4: Selected adult biochemical measurements**

### Selected adult biochemical measurements

| Module 4: Selected Adult Biochemical Measurements |  |   |   |
|---|--|---|---|
| #   | Question   | Response  | Code  |
| Questions at the clinic                           |  |   |   |
|   | Was a blood sample taken?  | Yes=1 <i>If yes, go to blood_techid</i><br>No=0   | blood_sample                                    |
|   | If blood sample was not taken, why not?<br>(SELECT ONE)  | Selected adult did not give consent=1 <i>End survey</i><br>Insufficient blood=2 <i>End survey</i><br>Unable to inject needle=3 <i>End survey</i><br>Other, please specify=4 <i>If Other, specify in open text field; end survey</i> | blood_sample_no                                 |
|   | Technician ID (Card Number)  | _ _ _ _   | blood_techid<br>STEPS B2                        |
|   | Blood sample number (taken from the test tube)   | _ _ _ _ _   | blood_sample_number                             |
|   | Time of day blood specimen taken (24 hour clock)   | Hours : minutes<br>_ _ : _ _<br>hrs      mins   | blood_time<br>blood_time_hour<br>blood_time_min |
|   | During the past 12 hours have you had anything to eat or drink, other than water?<br>(SELECT ONE)  | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | blood_eat_drink<br>STEPS B1                     |
|   | Today, have you taken insulin or other drugs (medication) that have been prescribed by a doctor or other health professional for raised blood glucose?<br>(SELECT ONE) | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | blood_dm_meds<br>STEPS B7                       |
|   | During the past two weeks, have you been treated for raised cholesterol with drugs (medication) prescribed by a doctor or other health professional?<br>(SELECT ONE)   | Yes=1<br>No=0<br>Don't know=77<br>Decline to respond=88   | blood_hce_meds<br>STEPS B10                     |
| Section 2: Blood Glucose                          |  |   |   |
|   | HgbA1c   | Enter HgbA1C (%): <i>Specify in open text field</i><br>HgbA1C not measured=0  | blood_hgba1cB6<br>STEPS B6                      |
|   | Vitamin D  | Enter vitamin D (ng/mL): <i>Specify in open text field</i><br>Vitamin D not measured=0  | blood_vitd<br>MOHSA                             |

|                   |   |  |
|-------------------|---|--|
| Total cholesterol | Enter total cholesterol (mmol/L): <i>Specify in open text field</i><br>Total cholesterol not measured=0 | blood_totcholesterol<br>B9<br>STEPS B9 |
| Triglycerides     | Enter triglyceride (mmol/L): <i>Specify in open text field</i><br>Triglycerides not measured=0          | blood_triglycerides<br>MOHSA           |
| HDL               | Enter HDL (mmol/L): <i>Specify in open text field</i><br>HDL not measured=0                             | blood_hdl<br>MOHSA                     |
| LDL               | Enter LDL (mmol/L): <i>Specify in open text field</i><br>LDL not measured=0                             | blood_ldl<br>MOHSA                     |