MINISTRY OF INTERNALLY DISPLACED PERSONS FROM THE OCCUPIED TERRITORIES, LABOUR, HEALTH AND SOCIAL AFFAIRS OF GEORGIA

# NON-COMMUNICABLE DISEASES RISK-FACTOR STEPS SURVEY, 

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EXECUTIVE SUMMARY

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## Introduction

WHO's STEPwise approach to noncommunicable diseases (NCDs) risk factors surveillance is the most common instrument for the surveillance of Non-Communicable Diseases risk-factors.

Conducting first STEPS Survey in Georgia in 2010 was made possible through the financial support of European Union and the technical and financial support of World Health Organization. STEPS survey gave us possibility to collect basic information on prevalence of NCDs and its biological and behavioral riskfactors in the country

The second STEPS survey was conducted in Georgia in 2016 through the technical and financial support of World Health Organization and the National Center of Disease Control and Public Health of Georgia.

Survey was carried out from June to September 2016. Both surveys have nationwide representation and were implemented by the National Center of Disease Control and Public Health. In order to plan and successfully implement STEPS survey in the country, STEPS coordinating committee has been formed which was chaired by the Deputy Minister of Health, Labor and Social Affairs, Dr. Nino Berdzuli.

STEPS Instrument covers three different levels of "steps" of risk factors assessment. These steps are:
I. Socio-demographic and behavioural information
II. Physical measurements such as height, weight, waist and hip circumference, blood pressure, pulse
III. Biochemical measurements to assess blood glucose, cholesterol and high density lipoproteins (HDL); urinary salt and cotinine

The target population of STEPS survey was adults aged 18-69. The population-based survey using a multistage, clustered sample design was conducted simultaneously both in the East and the West parts of Georgia. A total of 5,554 adults participated in the survey. The overall response rate was $75.7 \%$.

It is worth noting, that Georgia is the only country in the European Region carried out the second STEPS survey. This gives us possibility to get evidence based information about trends of NCDs and its biological and behavioral risk factors in the county. This is an important resource to plan important public health decisions and interventions, which from its end, will support to improve the health of the Georgia's population.

Conducting the third STEPS survey is recommended for 2021.

## Georgia STEPS Survey 2016

Fact Sheet

The STEPS survey of noncommunicable disease (NCD) risk factors in Georgia was carried out from June 2016 to September 2016. Georgia carried out Step 1, Step 2 and Step 3. Socio demographic and behavioural information was collected in Step 1. Physical measurements such as height, weight and blood pressure were collected in Step 2. Biochemical measurements were collected in Step 3. The survey was a population-based survey of adults aged 18-69. A Multi-stage cluster sampling design was used to produce representative data for that age range in Georgia. A total of 5554 adults participated in the survey. The overall response rate was $75.7 \%$. A repeat survey is planned for 2021 if funds permit.

| Results for adults aged 18-69 years (incl. 95\% CI) (adjust if necessary) | Both Sexes | Males | Females |
| :---: | :---: | :---: | :---: |
| Step 1 Tobacco Use |  |  |  |
| Percentage who currently smoke tobacco | $\begin{gathered} 31.0 \% \\ (28.9-33.0) \end{gathered}$ | $\begin{gathered} 57.0 \% \\ (53.6-60.3) \end{gathered}$ | $\begin{gathered} 7.0 \% \\ (5.8-8.2) \end{gathered}$ |
| Percentage who currently smoke tobacco daily | $\begin{gathered} 28.0 \% \\ (26.0-30.0) \end{gathered}$ | $\begin{gathered} 51.5 \% \\ (48.1-55.0) \end{gathered}$ | $\begin{gathered} 6.2 \% \\ (5.1-7.4) \end{gathered}$ |
| For those who smoke tobacco daily |  |  |  |
| Average age started smoking (years) among current daily smokers | 18.3 | 17.8 | 22.4 |
| Average age started smoking (years) among current smokers | 18.4 | 17.9 | 22.6 - |
| Percentage of daily smokers smoking manufactured cigarettes | $\begin{gathered} 98.6 \% \\ (97.7-99.5) \end{gathered}$ | $\begin{gathered} 98.4 \% \\ (97.5-99.4) \end{gathered}$ | $100.0 \%$ |
| Mean number of manufactured cigarettes smoked per day (by smokers of manufactured cigarettes) | 21.3 - | 22.2 - | 14.4 - |
| Step 1 Alcohol Consumption |  |  |  |
| Percentage who are lifetime abstainers | $\begin{gathered} 10.4 \% \\ (8.9-12.0) \end{gathered}$ | $\begin{gathered} 3.9 \% \\ (2.6-5.3) \end{gathered}$ | $\begin{gathered} 16.4 \% \\ (14.1-18.8) \end{gathered}$ |
| Percentage who are past 12 month abstainers | $\begin{gathered} 20.1 \% \\ (18.5-21.7) \\ \hline \end{gathered}$ | $\begin{gathered} 11.4 \% \\ (9.5-13.3) \\ \hline \end{gathered}$ | $\begin{gathered} 28.1 \% \\ (25.8-30.4) \\ \hline \end{gathered}$ |
| Percentage who currently drink (drank alcohol in the past 30 days) | $\begin{gathered} 39.1 \% \\ (36.6-41.5) \end{gathered}$ | $\begin{gathered} 58.9 \% \\ (55.2-62.5) \end{gathered}$ | $\begin{gathered} \hline 20.8 \% \\ (18.6-22.9) \end{gathered}$ |
| Percentage who engage in heavy episodic drinking (6 or more drinks on any occasion in the past 30 days) | $\begin{gathered} \hline 18.3 \% \\ (16.1-20.6) \end{gathered}$ | $\begin{gathered} 35.3 \% \\ (31.2-39.4) \end{gathered}$ | $\begin{gathered} 2.6 \% \\ (1.7-3.5) \end{gathered}$ |
| Step 1 Diet |  |  |  |
| Mean number of days fruit consumed in a typical week | $\begin{gathered} 5.3 \\ (5.2-5.4) \end{gathered}$ | $\begin{gathered} 5.1 \\ (4.9-5.3) \end{gathered}$ | $\begin{gathered} 5.4 \\ (5.3-5.6) \end{gathered}$ |
| Mean number of servings of fruit consumed on average per day | $\begin{gathered} 2.0 \\ (1.9-2.1) \end{gathered}$ | $\begin{gathered} 2.0 \\ (1.8-2.1) \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.9-2.2) \end{gathered}$ |
| Mean number of days vegetables consumed in a typical week | $\begin{gathered} 6.0 \\ (5.9-6.1) \end{gathered}$ | $\begin{gathered} 5.9 \\ (5.8-6.0) \end{gathered}$ | $\begin{gathered} 6.1 \\ (5.9-6.2) \end{gathered}$ |
| Mean number of servings of vegetables consumed on average per day | $\begin{gathered} 2.4 \\ (2.3-2.5) \end{gathered}$ | $\begin{gathered} 2.4 \\ (2.3-2.6) \end{gathered}$ | $\begin{gathered} 2.4 \\ (2.3-2.5) \end{gathered}$ |
| Percentage who ate less than 5 servings of fruit and/or vegetables on average per day | $\begin{gathered} 63.0 \% \\ (60.1-66.0) \end{gathered}$ | $\begin{gathered} 63.8 \% \\ (59.6-67.9) \end{gathered}$ | $\begin{gathered} 62.4 \% \\ (59.5-65.3) \end{gathered}$ |
| Percentage who always or often add salt or salty sauce to their food before eating or as they are eating | $\begin{gathered} 26.7 \% \\ (24.7-28.8) \\ \hline \end{gathered}$ | $\begin{gathered} 33.4 \% \\ (29.4-37.3) \\ \hline \end{gathered}$ | $\begin{gathered} 20.6 \% \\ (18.6-22.7) \end{gathered}$ |
| Percentage who always or often eat processed foods high in salt | $\begin{gathered} 14.3 \% \\ (12.4-16.2) \end{gathered}$ | $\begin{gathered} 18.9 \% \\ (15.3-22.5) \end{gathered}$ | $\begin{gathered} 10.1 \% \\ (8.7-11.5) \end{gathered}$ |
| Step 1 Physical Activity |  |  |  |
| Percentage with insufficient physical activity (defined as < 150 minutes of moderate-intensity activity per week, or equivalent)* | $\begin{gathered} 17.4 \% \\ (15.6-19.2) \end{gathered}$ | $\begin{gathered} 16.2 \% \\ (13.6-18.9) \end{gathered}$ | $\begin{gathered} 18.4 \% \\ (16.3-20.4) \end{gathered}$ |
| Median time spent in physical activity on average per day (minutes) (presented with inter-quartile range) | $\begin{gathered} 137.1 \\ (40.0-300.0) \end{gathered}$ | $\begin{gathered} 158.6 \\ (55.7-342.9) \end{gathered}$ | $\begin{gathered} \hline 173.8 \\ (30.0-270.0) \end{gathered}$ |
| Percentage not engaging in vigorous activity | $\begin{gathered} 82.4 \% \\ (80.3-84.6) \end{gathered}$ | $\begin{gathered} 72.2 \% \\ (68.5-75.9) \end{gathered}$ | $\begin{gathered} 91.8 \% \\ (90.1-93.4) \end{gathered}$ |


| Step 1 Cervical Cancer Screening |  |  |  |
| :---: | :---: | :---: | :---: |
| Percentage of women aged 30-49 years who have ever had a screening test for cervical cancer |  |  | $\begin{gathered} 23.9 \% \\ (20.6-27.3) \end{gathered}$ |
| Step 2 Physical Measurements |  |  |  |
| Mean body mass index - BMI (kg/m²) | $\begin{gathered} \hline 28.1 \\ (27.8-28.4) \end{gathered}$ | $\begin{gathered} 27.9 \\ (27.5-28.3) \end{gathered}$ | $\begin{gathered} 28.3 \\ (28.0-28.6) \end{gathered}$ |
| Percentage who are overweight ( $\mathrm{BMI} \geq 25 \mathrm{~kg} / \mathrm{m}^{2}$ ) | $\begin{gathered} 64.6 \% \\ (62.3-67.0) \end{gathered}$ | $\begin{gathered} 65.5 \% \\ (61.4-69.7) \end{gathered}$ | $\begin{gathered} 63.8 \% \\ (61.4-66.3) \end{gathered}$ |
| Percentage who are obese ( $\mathrm{BMI} \geq 30 \mathrm{~kg} / \mathrm{m}^{2}$ ) | $\begin{gathered} 33.2 \% \\ (31.3-35.2) \end{gathered}$ | $\begin{gathered} 30.2 \% \\ (26.9-33.6) \end{gathered}$ | $\begin{gathered} 36.0 \% \\ (33.7-38.2) \end{gathered}$ |
| Average waist circumference (cm) |  | $\begin{gathered} 95.7 \\ (94.3-97.2) \end{gathered}$ | $\begin{gathered} 89.6 \\ (88.7-90.5) \end{gathered}$ |
| Mean systolic blood pressure - SBP ( mmHg ), including those currently on medication for raised BP | $\begin{gathered} 129.4 \\ (128.4-130.4) \end{gathered}$ | $\begin{gathered} 132.6 \\ (131.3-134.0) \end{gathered}$ | $\begin{array}{r} 126.5 \\ (125.4 \\ 127.6) \end{array}$ |
| Mean diastolic blood pressure - DBP ( mmHg ), including those currently on medication for raised BP | $\begin{gathered} 82.2 \\ (81.6-82.8) \end{gathered}$ | $\begin{gathered} 83.0 \\ (82.1-84.0) \end{gathered}$ | $\begin{gathered} \hline 81.4 \\ (80.7-82.1) \end{gathered}$ |
| Percentage with raised BP (SBP $\geq 140$ and/or DBP $\geq 90 \mathrm{mmHg}$ or currently on medication for raised BP) | $\begin{gathered} 37.7 \% \\ (35.5-40.0) \end{gathered}$ | $\begin{gathered} 38.6 \% \\ (35.1-42.2) \end{gathered}$ | $\begin{gathered} 36.9 \% \\ (34.7-39.1) \end{gathered}$ |
| Percentage with raised BP (SBP $\geq 140$ and/or DBP $\geq 90 \mathrm{mmHg}$ ) who are not currently on medication for raised BP | $\begin{gathered} 55.4 \% \\ (52.1-58.8) \end{gathered}$ | $\begin{gathered} 64.2 \% \\ (59.3-69.0) \end{gathered}$ | $\begin{gathered} 47.2 \% \\ (43.4-50.9) \end{gathered}$ |
| Step 3 Biochemical Measurement |  |  |  |
| Mean fasting blood glucose, including those currently on medication for raised blood glucose [ $\mathrm{mmol} / \mathrm{L}$ ] | $\begin{gathered} 4.4 \\ (4.3-4.5) \end{gathered}$ | $\begin{gathered} 4.4 \\ (4.3-4.5) \end{gathered}$ | $\begin{gathered} 4.4 \\ (4.3-4.5) \end{gathered}$ |
| Percentage with impaired fasting glycaemia as defined below <br> - Capillary whole blood value $\geq 5.6 \mathrm{mmol} / \mathrm{L}$ and $<6.0 \mathrm{mmol} / \mathrm{L}$ | $\begin{gathered} 2.0 \% \\ (1.4-2.5) \end{gathered}$ | $\begin{gathered} 2.0 \% \\ (1.0-3.0) \end{gathered}$ | $\begin{gathered} 1.9 \% \\ (1.4-2.4) \end{gathered}$ |
| Percentage with raised fasting blood glucose as defined below or currently on medication for raised blood glucose <br> - Capillary whole blood Capillary whole blood value value $\geq 6.1 \mathrm{mmol} / \mathrm{L}$ | $\begin{gathered} 4.5 \% \\ (3.7-5.3) \end{gathered}$ | $\begin{gathered} 4.7 \% \\ (3.5-6.0) \end{gathered}$ | $\begin{gathered} 4.3 \% \\ (3.4-5.2) \end{gathered}$ |
| Mean total blood cholesterol, including those currently on medication for raised cholesterol [mmol/L] | $\begin{gathered} 4.3 \\ (4.3-4.4) \end{gathered}$ | $\begin{gathered} 4.1 \\ (4.0-4.3) \end{gathered}$ | $\begin{gathered} 4.5 \\ (4.4-4.6) \end{gathered}$ |
| Percentage with raised total cholesterol $(\geq 5.0 \mathrm{mmol} / \mathrm{L}$ or currently on medication for raised cholesterol) | $\begin{gathered} 27.7 \% \\ (25.5-29.9) \end{gathered}$ | $\begin{gathered} 21.9 \% \\ (18.6-25.2) \end{gathered}$ | $\begin{gathered} 33.0 \% \\ (30.4-35.6) \end{gathered}$ |
| Mean intake of salt per day (in grams) | $\begin{gathered} 8.5 \\ (8.3-8.6) \end{gathered}$ | $\begin{gathered} 9.7 \\ (9.4-9.9) \end{gathered}$ | 7.4 |
| Cardiovascular disease (CVD) risk |  |  |  |
| Percentage aged $40-69$ years with a 10-year CVD risk $\geq 30 \%$, or with existing CVD ${ }^{1}$ | $\begin{gathered} 28.8 \% \\ (25.9-31.7) \end{gathered}$ | $\begin{gathered} \hline 30.8 \% \\ (25.9-35.7) \end{gathered}$ | $\begin{gathered} 27.1 \% \\ (24.3-29.9) \end{gathered}$ |
| Summary of combined risk factors <br> - current daily smokers <br> - overweight ( $\mathrm{BMI} \geq 25 \mathrm{~kg} / \mathrm{m}^{2}$ ) <br> - less than 5 servings of fruits \& vegetables per day <br> - raised BP (SBP $\geq 140$ and/or DBP $\geq 90 \mathrm{mmHg}$ or curre <br> - insufficient physical activity on medication for raised BP) |  |  |  |
| Percentage with none of the above risk factors | $\begin{gathered} 7.6 \% \\ (6.0-9.2) \end{gathered}$ | $\begin{gathered} 5.7 \% \\ (3.4-8.0) \end{gathered}$ | $\begin{gathered} 9.3 \% \\ (7.7-11.0) \end{gathered}$ |
| Percentage with three or more of the above risk factors, aged 18 to 44 years | $\begin{gathered} 25.2 \% \\ (22.1-28.3) \end{gathered}$ | $\begin{gathered} 37.9 \% \\ (32.5-43.3) \end{gathered}$ | $\begin{gathered} 12.5 \% \\ (10.2-14.8) \end{gathered}$ |
| Percentage with three or more of the above risk factors, aged 45 to 69 years | $\begin{gathered} 48.6 \% \\ (45.7-51.5) \end{gathered}$ | $\begin{gathered} 55.1 \% \\ (50.4-59.8) \end{gathered}$ | $\begin{gathered} 43.4 \% \\ (40.2-46.5) \end{gathered}$ |
| Percentage with three or more of the above risk factors, aged 18 to 69 years | $\begin{gathered} 36.1 \% \\ (33.8-38.4) \end{gathered}$ | $\begin{gathered} 45.4 \% \\ (41.7-49.2) \end{gathered}$ | $\begin{gathered} 27.6 \% \\ (25.5-29.8) \end{gathered}$ |

[^0]
## Tobacco

Almost one third of Georgia's population (31\%) are smokers; 57\% of male - current smokers, among them $90.5 \%$ - daily smokers; 7\% of female noted that, they are current smokers; in fact, according to urine cotinine test, smoking prevalence in female is $12.2 \%$.

Picture \#1. Current smokers (\%) by age and sex


Mean age of starting smoking in male - 17.7 years and in female - 22.4 years.
Picture \#2. Mean age of starting smoking by age and sex


The absolute majority of smokers (98.6\%) smoke manufactured cigarettes. Mean number of manufactured cigarettes smoked per day by daily smokers is 21.3 cigarettes (male - 22.2 cigarettes, female-14.4 cigarettes).

Picture \#3. Mean number of manufactured cigarettes smoked per day by daily smokers by age and sex

25.3 \% of current smokers (male $25.5 \%$, female $24.2 \%$ ) tried to quit smoking during the past 1 year. Those who have tried to quit smoking used the following: consultation on a primary healthcare level $-11.0 \%$; electronic cigarettes -9.4\%; nicotine replacement therapy - 0.3\%; pharmacotherapy (Tabex, Bypropion) - 0.4\%; none of them referred to Quit-line service.

Picture \#4. Current smokers, who tried to quit smoking during the past one year (\%) by age and sex

$39.3 \%$ of male and $30.4 \%$ of female current smokers received doctor's/health worker's advice to quit smoking. $43 \%$ of respondents are exposed to secondhand smoke at home and $15.8 \%$ at their workplaces.

Picture \#5. Secondhand smoke exposure at home during the past 30 days (\%) by age and sex


Picture \#6. Secondhand smoke exposure at workplaces during the past 30 days (\%) by age and sex


## Alcohol

$89.6 \%$ of respondents (male $96.1 \%$, female $83.6 \%$ ) consumed any type of alcohol at least once in a lifetime.

Picture \#7. Alcohol consumption (\%) by sex


Current (during the past 30 days) alcohol consumption prevalence is $39 \%$ (male 58.9\%, female 20.7\%).
Picture \#8. Past 30 days alcohol consumption (\%) by age and sex


Number of drinking occasions on average is 2 times higher in male than in female respondents ( 5.7 vs . 2.5 occasions, accordingly). Average number of standard drinks is almost 3 times higher in man than in women ( 5.7 vs. 2.0, accordingly). Heavy drinking occasion ( 6 or more standard drinks on a single occasion) prevalence is $18.3 \%$; it's almost 14 -times higher in man than in women ( $35.3 \%$ vs. $2.6 \%$ ). Quit alcohol drinking because of medical problem or per doctor's/health worker's advice among the abstainers during the past 12 months accounts to $21.6 \%$ (male $42.4 \%$, female $13.8 \%$ ). $38.8 \%$ of current drinkers (male $43.6 \%$, female $26 \%$ ) consumed unregistered alcohol during the past 7 days.

Picture \#9. Consumption of 6 or more standard alcohol drinks at least once during the past 30 days (\%) by age and sex


## Diet

On average, respondents consumed fruits 5.3 days a week and vegetables 6 days a week.
Picture \#10. Fruits consumption, mean number of days in a typical week by age and sex


Picture \#11. Vegetables consumption, mean number of days in a typical week by age and sex


On average 2 servings of fruits and 2.4 servings of vegetables are consumed per day. Less than 5 servings of fruits and vegetables per day are consumed by $63.8 \%$ of male and $62.4 \%$ of female respondents. Fruits and vegetables are not consumed at all by $6 \%$ of male and $4 \%$ of female respondents.

Picture \#12. Consumption of 5 or more serving of fruit and vegetables (\%) by age and sex


On average, meat and meat products were consumed on 2.2 days a week; fish and sea-products are consumed on 1 day a week; milk and diary products are consumed on 5.5 days a week; bread products 6.7 days a week; sweets or sugar products -1.5 days a week. $51.2 \%$ respondents eat three times a day; about $32 \%$ - four times a day; $14 \%$ of respondents eat more than 4 -times a day ; $0.1 \%$ of the population does not eat everyday.

Picture \#13. Mean number of days by age and sex when meat and meat products were consumed


Picture \#14. Mean number of days by age and sex when fish and fish products were consumed


Picture \#15. Mean number of days by age and sex when milk and dairy products were consumed


Picture \#16. Mean number of days by age and sex when bread and bread products were consumed


Picture \#17. Mean number of days by age and sex when sweets were consumed


Mean daily consumption of salt is 8.5 gr . (male 9.7 gr ; female 7.4 gr ).

## Physical Activity

Level of physical activity in $17.4 \%$ of respondents (male 16.2\%, female 18.4\%) does not meet WHO recommendations on physical activity. Younger men (18-29 years) are more physically active.

Picture \#18. Proportion of respondents not meeting WHO recommendations on physical activity (\%), by age and sex


Mean length of general physical activity per day is 194.9 minutes (male 218.1 minutes, female 173.8 minutes). Recreational physical activity is $3.5 \%$ out of total physical activity (male $5.3 \%$, female $1.5 \%$ ).

Picture \#19. Average length of a physical activity (minutes) by age and type of physical activity by age and sex

$82.4 \%$ of respondents (male $72.2 \%$, female $91.8 \%$ ) are not involved in a vigorous physical activity.

Picture \#20. Proportion of respondents, not participating in a vigorous physical activity by age and sex


## Anthropometry

Mean height in male is 173.8 cm and average male weight is 84.4 kg . Mean height in female is 161.2 cm and average female weight is 73.6 kg. Body Mass Index (Mean BMI) is 28.1; 27.9 in male and 28.3 in female. Body Mass Index increases with age.

Picture \#21. Body Mass Index by age and sex

$64.6 \%$ of respondents are overweight or obese ( $\mathrm{BMI} \geq 25$ ), $32.8 \%$ of respondents have normal weigh and $2.5 \%$ are underweight. The prevalence of overweight is higher in male ( $35.3 \%$ and $27.9 \%$ accordingly), while the prevalence of obesity is higher in female ( $36.0 \%$ and $30.2 \%$ accordingly)

Picture \#22. Body Mass Index categories by sex


Picture \#23. Overweight by age and sex


Picture \#24. Obesity by age and sex


Waist-to-hip ratio is 1.0 among men and 0.9 in women. Both indexes are higher than the indexes according to WHO definition of obesity (male $>0.9$ and female $>0.86$ ).

## Arterial Hypertension

24.5\% of respondents have never had blood pressure measured by a doctor or other health worker. Among those who have ever been told that they have raised blood pressure or hypertension, 53.5\% ( $47.5 \%$ male, $58.1 \%$ female) were taking some drugs (medication) for raised blood pressure prescribed by a doctor or other health worker.

Picture \#25. Blood pressure measurement and diagnosis by sex

$37.7 \%$ (male $38.6 \%$, female $36.9 \%$ ) of respondents have high blood pressure ( $\geq 140 / 100 \mathrm{mmHg}$ ). Prevalence of stage II hypertension ( $\geq 160 / 100 \mathrm{mmHg}$ ) is $24.0 \%$ (male $22.8 \%$, female $25.2 \%$ ). Among those who had high blood pressure during the research and currently are not receiving medication for raised blood pressure, $25.1 \%$ (male $28.7 \%$, female $21.6 \%$ ) have elevated blood pressure. Among those who currently are on medication for raised blood pressure, $16.4 \%$ (male-12.9\% and female-19.7\%) have normal blood pressure - controlled hypertension; $28.2 \%$ are on medication but still have raised blood pressure; $55.4 \%$ (male 64.2\%, female $47.2 \%$ ) were not receiving medication for raised blood pressure and also have high blood pressure. $53.5 \%$ of people with diagnosed arterial hypertension are currently on medication for raised blood pressure.

Picture \#26. Antihypertensive treatment and blood pressure by sex

4.7\% are currently taking Aspirin and 1.5\% Statins for CVD prevention and treatment. Among those who past 2 weeks were taking medication for raised blood pressure, $30 \%$ were taking medication only when the blood pressure raises and 3.2\% - irregularly, when recalled.

Picture \#27. Regimen of taking medication for raised blood pressure by age and sex

8.3\% of medication recommended by the medical doctor (according respondents) to control blood pressure does not belong to the antihypertensive medicines. $5 \%$ of respondents have anamnesis of atrial fibrillation or arrhythmia and $11.3 \%$ - varicose veins disease; $5.5 \%$ are currently taking anticoagulants.

Mean systolic blood pressure was 129.4 mmHg (male 132.6, female 126.5) and mean diastolic blood pressure - 82.2 mmHg (male 83.0, female 81.4); mean heart rate was 79.2 (male 79.3, female 79.1).

Picture \#28. SBP $\geq 140$ and/or DBP $\geq 90 \mathrm{mmHg}$ or currently on medication for raised blood pressure (\%) by age and sex


Picture \#29. SBP $\geq 160$ and/or DBP $\geq 100 \mathrm{mmHg}$ or currently on medication for raised blood pressure (\%) by age and sex


Picture \#30. SBP $\geq 140$ and/or DBP $\geq 90 \mathrm{mmHg}$, excluding those on medication for raised blood pressure (\%) by age and sex


Picture \#31. SBP $\geq 160$ and/or DBP $\geq 100 \mathrm{mmHg}$, excluding those on medication for raised blood pressure (\%) by age and sex


## Diabetes

62.4\% of respondents have never measured blood glucose. 5.1\% of respondents (5.7\% female and 4.6\% male) mentioned that they have high blood glucose or are diagnosed with diabetes. Almost $60 \%$ of respondents with high blood glucose or those diagnosed with diabetes are on medication regardless of the gender. Among those who take drugs, $21.9 \%$ of male and $14.3 \%$ of female respondents are insulin dependant.

Picture \#32. Measurement of blood glucose level and diagnoses (\%) by sex


Picture \#33. Raised blood glucose level or diagnosed with diabetes during the past 12 months (\%) by age and sex


Picture \#34. Insulin users among persons with high blood glucose or with diabetes (\%) by age and sex


Mean fasting glucose was $4.4 \mathrm{mmol} / \mathrm{l}$. Pre-diabetes condition was $2 \% .3 .3 \%$ of respondents were on antidiabetic medication; rate increases with aging.

Picture \#35. Impaired fasting glycemia (\%) by age and sex


Picture \#36. Raised blood glucose (>6.1 mmol/l) or currently on medication for diabetes (\%) by age and sex


Picture \#37. Fasting Blood sugar (\%) by age and sex


Picture \#38. Respondents with high blood sugar or on anti-diabetic treatment (\%) by age and sex


Picture \#39. Blood sugar concentration (\%) by age and sex


## Cholesterol

$84.2 \%$ of respondents have never measured blood cholesterol. Only one third of people with high cholesterol are taking oral medication for raised blood cholesterol.

Picture \#40. Total cholesterol measurement and diagnosis during the lifetime (\%) by age and sex


Picture \#41. Respondents who have never measured blood cholesterol (\%) by age and sex


Picture \#42. Respondents with high blood cholesterol diagnosed within past 12 months (\%) by age and sex


Mean total cholesterol was $4.3 \mathrm{mmol} / \mathrm{l} .27 .7 \%$ of respondents have total cholesterol level $\geq 5.0 \mathrm{mmol} / \mathrm{l}$ or are currently on medication for raised cholesterol and $8.7 \%$ have total cholesterol level $\geq 6.2 \mathrm{mmol} / \mathrm{l}$ or are currently on medication for raised cholesterol. Mean high density lipoprotein (HDL) was $1 \mathrm{mmol} / \mathrm{l}$. $76.1 \%$ of male population has $\mathrm{HDL}<1.03 \mathrm{mmol} / \mathrm{I}$ and $76.3 \%$ of female has $\mathrm{HDL}<1.29 \mathrm{mmol} / \mathrm{l}$.

## 10-year cardiovascular (CVD) risk

28.8\% of respondents between 40-69 years of age have 10-year cardiovascular disease (CVD) risk of $\geq 30 \%$ or existing CVD. $28 \%$ of them are receiving drug therapy and consultations to prevent heart attacks and strokes.

Picture \#43. People receiving drug therapy and consultation among those with a 10-year CVD risk of $\geq 30 \%$, including those with existing CVD (\%) by age and sex


Picture \#44. Respondents with a 10-year CVD risk of $\geq 30 \%$ or with existing CVD (\%) by age and sex


## Combined risk-factors

92.4\% of respondents (male 94.3\%, female 90.7\%) have one or more risk-factors and 36.1\% (male 45.4\%, female $27.6 \%$ ) have 3 and more risk-factors.

## Healthy lifestyle advice from doctors/medical professionals

Only one fifth of respondents have been advised by a doctor or other health worker regarding the healthy lifestyle components (tobacco, alcohol, nutrition, physical activity, maintenance of healthy weight, restriction of salt and fat). $16.6 \%$ have been advised to not to start smoking or to quit; $19.1 \%$ to decrease salt consumption; $20.8 \%$ to eat more than 5 servings of fruits and vegetables daily; $22.4 \%$ to optimize physical activity and $21.1 \%$ to maintain healthy weight or to loose weight.

Picture \#45. Advised not to start or to to quit smoking (\%) by age and sex


Picture \#46. Advised to eat $\geq 5$ servings of fruit and vegetables daily (\%) by age and sex


Picture \#47. Advised to optimize physical activity (\%) by age and sex


Picture \#48. Advised to maintain healthy weight or to loose weight (\%) by age and sex


Picture \#49. Advised to reduse salt consumption (\%) by age and sex


Picture \#50. Advised to reduce fat in the diet (\%) by age and sex


## Visit to doctors

$46.3 \%$ of respondents have visited doctor or medical personnel during last 12 months. In $75 \%$ of cases the main reason of last visit to doctor was specific health problem and in just $18.2 \%$ - preventive health checkup.

Picture \#51. Reasons of last visit to doctor or medical personnel (\%) by sex


Picture \#52. Recommendations from health professionals (\%)


## Cervical Cancer Screening

$19.9 \%$ of women have ever had screening test for cervical cancer; in 30-49 years old women this rate is 23.9\%.

Picture \#53. Cervical cancer screening (\%) by age


## Oral health

$60.9 \%$ of respondents reported having more than 20 natural teeth; $4.3 \%$ of respondents do not have any teeth. $86.2 \%$ of respondents reported they clean their teeth once a day and $35.3 \%$ - clean their teeth twice a day. $34 \%$ of respondents have experienced pain or discomfort caused by their teeth or mouth during the past 12 months.

Picture \#54. Pain or discomfort in mouth during the past 12 months (\%) by age and sex


## Mental health / Suicide

During the past 12 months $1.5 \%$ of respondents have seriously considered attempting suicide during the past 12 months, among which $16 \%$ made a plan about how to attempt suicide during the past 12 months. $0.9 \%$ have ever attempted suicide.

## Injury

$2.7 \%$ of respondents were involved in a road traffic accidents during the past 12 months.

Picture \#55. Road-traffic accidnts durign the past 12 mnths (\%) by age and sex


## Violence

$0.6 \%$ of respondents were involved in a violent incident during the past 12 months at least once. In 66.9\% of cases violent incidence was done without a weapon and in $33.1 \%$ with weapon (other than a firearm).

Picture \#56. Relationship with a person who caused the injury (\%) by age and sex


## Sexual health

91.1\% of respondents (male 96.7\%, female 86.2\%) have had a sexual intercourse during a lifetime. Average Age Index of first sexual intercourse was 19.8 year (male 18.1, female 21.5). First sexual intercourse before age of 15 was detected in $3.4 \%$ (male $6.3 \%$, female $0.9 \%$ ) of respondents. $25 \%$ has the past sexual intercourse during the past 1 week/past 1 month period. $76.9 \%$ did not report any use of contraception during the past sexual intercourse. During the past sexual intercourse usage of contraceptives was: condom in $32.6 \%$ (male $39.5 \%$, female $22.6 \%$ ), oral contraception in $2.5 \%$ and other methods in $3.6 \%$ of cases.

## STEPS 2010-2016

## Tobacco Consumption

- Percentage of current smokers increased both in male (from 55\% to 59.2\%) and in female (from $4.8 \%$ to $7.3 \%$ ) respondents. According to Urine Cotinine test smoking prevalence in women is 12.2\%
- Average age started smoking decreased from 18.6 (2010) to 18.2 (2016).
- The mean number of cigarette sticks consumed by daily smokers increased from 19.5 (2010) to 21.4 (2016)

Picture \#57. Current smokers (\%), 18-64 y., by age and sex; STEPS 2010-2016


## Alcohol Consumption

- Alcohol consumption during the lifetime - increased from $78.5 \%$ (2010) to $89.7 \%$ (2016)
- Alcohol consumption during the past 1 year - reduced from $85.5 \%$ (2010) to $81 \%$ (2016)
- Alcohol consumption during the past 30 days - increased by $-1.3 \%$
- Excessive alcohol use has been relatively low in 2016 compared to 2010-(13.4\% less men and 7.4 \% less women consumed excessive alcohol)

Picture \#58. Alcohol consumption (\%), 18-64 age.; STEPS 2010-2016


## Diet

- Number of days fruits/vegetables consumed as well as amount of servings consumed per day has been increased
- $\quad \geq 5$ fruit and/or vegetables servings - has been increased from $30.4 \%$ (2010) to $36.8 \%$ (2016)

Picture \#59. Consumption of 5 and more servings of fruit and vegetables (\%), 18-64 y; STEPS 2010-2016


## Physical Activity

- Mean minutes of physical activity has been reduced by 5 minutes per day
- Work-related physical activity has been reduced by 14.9 minutes
- Transport-related physical activity has been increased by 10.4 minutes
- Recreation physical activity has been increased by 1.1. minutes.
- Percentage of people who participate in vigorous physical activity has been reduced by 3\%.
- Consumption of 5 and more servings of fruit and vegetables (\%), 18-64 y; STEPS 2010-2016

Picture \#60. Total physical activity (minutes), 18-64 y; STEPS 2010-2016


## Anthropometry

- Mean Body Mass Index has been increased from 26.7 (2010) to 27.9 (2016)
- Significantly increased overweight (from 56.4 \% to 62.9 ) and obesity (from $25.1 \%$ to $31.7 \%$ ) indexes.

Picture \#61. Overweight and obesity, 18-64 y; STEPS 2010-2016


## Biochemical Indicators

- Mean fasting blood glucose reduced by 1.3.mmol/l
- Mean fasting Cholesterol reduced by $0.2 \mathrm{mmol} / \mathrm{l}$
- Percentage of those with total cholesterol 5.0. mmol/I or more or those who are on anti-lipid treatment has been increased almost 1.5 times. The raise is more visible in women.

Picture \#62. Fasting glucose and choleterol (mmol/l), 18-64 y; STEPS 2010-2016


## Arterial Hypertension

- Systolic and diastolic blood pressure levels have been slightly changed - systolic (from 129.3 mmHg to 128 mmHg .) and diastolic blood pressure (from 81.3 to 81.9 mmHg ).
- Percentage of those with raised blood pressure or currently on medication has been increased by $1.2 \%$. Prevalence of high blood pressure in men has been reduced by $1.1 \%$, while increased by $3.4 \%$ in women.
- Percentage of those with raised blood pressure but not on anti-hypertension medication has been increased by $0.5 \%$.
- Prevalence of high blood pressure in men has been reduced by $2.6 \%$ while increased by $4.1 \%$ in women.

Picture \#63. Raised blood pressure (\%), 18-64 y; STEPS 2010-2016


## Cardiovascular disease (CVD) risk

- Percentage of those with at least one risk-factor for CVDs reduced by 1.6\%
- Percentage of those with 3-5 of above risk-factors tendency is reduced both in men and women as well as both in 18-44 and 45-64 age groups.
- Percentage of those with 3-5 of above risk-factors in 18-64 age group has been reduced from 35.2\% (2010) to 34.6\%.

Picture \#64. 3-5 CVD risk-factors in 18-44 and 45-64age groups (\%); STEPS 2010-2016


## Conclusions

- According to the research results, $31.0 \%$ of the adult population in Georgia are smokers; $28 \%$ are current daily smokers; At this point, the highest smoking prevalence among both sexes was seen in the most productive period, among 30-44 age groups;
- $39.0 \%$ of the population consumes alcohol. $18.3 \%$ consumes alcohol excessively;
- $63.0 \%$ of the population in Georgia consumes less than 5 standard servings of fruits and/or vegetables per day; More than one fourth of the population (26.7\%) always or often adds salt or salty sauce the dish before or after trying it;
- Physical activity level among $17.4 \%$ of the population does not comply with WHO recommendations; $64.6 \%$ is overweight; $33.2 \%$ is obese.
- $37.7 \%$ has hypertension or currently is receiving treatment for hypertension; Among those who currently are not receiving treatment for hypertension, $25.1 \%$ has high blood pressure;
- $4.5 \%$ of the population in Georgia has high blood glucose levels ( $\geq 6.1 \mathrm{mmol} / \mathrm{I}$ ) or is receiving medications; $8.7 \%$ of the population has hypercholesterolemia;
- Only $20 \%$ of the woman population has had cervical cancer screening. Proportion of such women is highest among 30-59 age groups. But, even in this age group less that one third of the women had been screened;
- Majority of the population (92.4\%) is under the influence of 1 or more risk factors of noncommunicable diseases. $36.1 \%$ is under the influence of 3-5 risk factors. Men are influenced twice as much as women. Almost half of the population of 45 years of age and older (48.6\%) has high risk of non-communicable diseases;
- Research results clearly highlight immediate need to implement effective system for noncommunicable diseases prevention and control.


## Recommendations

- Research results clearly highlight immediate need to implement effective system for noncommunicable diseases prevention and control;
- It is crucial to use research results as an evidence to raise awareness, encourage healthy lifestyle and decrease non-communicable disease risk factors;
- It is essential to develop, plan and implement interventions tailored to decrease risk factors for non-communicable diseases taking into account the best buys for premature death caused by NCDs, which represent the best interventions;
- It is appropriate to disseminate results among all interested organisations and parties, including mass media sources, to raise awareness among population regarding NCD risks and health promotion;
- It is appropriate to share results with insurance companies and other governmental or nongovernmental, national and international organisations working on health issues in order to accomplish in depth analyses which will be focused on win-win decisions, offered possibilities by insurance companies to manage NCDs and increase coverage;
- It is important to develop simplified informational, educational and communication materials for diverse groups of the population, which will ensure accessibility of health literacy;
- It is crucial to improve competencies among primary healthcare workers on NCD prevention and control and health promotion. It is vital to increase accessibility of preventive check-ups and essential medications for NCDs; This especially concerns hypertension.
- It is advised to develop and strengthen mechanisms for monitoring health status and surveillance;
- It is important to review NCD strategy and action plan, various laws and normative acts.


## Annex 1.

## STEPS 2016 Coordination Council

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## Annex 2

## STEPS 2016 Survey personnel

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## WHO STEPS Instrument for Noncommunicable Disease Risk Factor Surveillance

## <Georgia 2016>

## Survey Information

| Location and Date | Response | Code |
| :---: | :---: | :---: |
| Cluster/Centre/Village ID | L | 11 |
| Cluster/Centre/Village name |  | 12 |
| Interviewer ID | - | 13 |
| Date of completion of the instrument |  | 14 |


| Consent, Interview Language and Name | Response |  | Code |
| :---: | :---: | :---: | :---: |
| Consent has been read and obtained | $\begin{aligned} & \text { Yes } \\ & \text { No } \end{aligned}$ | If NO, END | 15 |
| Time of interview (24 hour clock) |  | $\underset{\text { hrs }}{\mathrm{L}-\mathrm{C}}: \underset{\text { mins }}{\mathrm{L}}$ | 17 |
| Family Surname |  |  | 18 |
| First Name |  |  | 19 |
| Personal ID Number |  |  | 19a |
| Additional Information that may be helpful |  |  |  |
| Contact phone number where possible |  |  | 110 |

## Step 1 Demographic Information

| Question | Response | Code |
| :---: | :---: | :---: |
| Sex (Record Male / Female as observed) | $\begin{array}{rr} \text { Male } & 1 \\ \text { Female } & 2 \end{array}$ | C1 |
| What is your date of birth? <br> Don't Know 77777777 |  | C2 |
| How old are you? | Years | C3 |
| In total, how many years have you spent at school and in fulltime study (excluding pre-school)? | Years $\square-$ | C4 |


| Demographic Information |  |  |  |
| :---: | :---: | :---: | :---: |
| What is the highest level of education you have completed? | No formal schooling Not completed primary Primary school (1-6 years) Main secondary (7-10 years) Secondary school completed (11-12 years) Professional education University completed Post graduate degree Refused | $\begin{aligned} & \hline 1 \\ & 2 \\ & 3 \\ & 4 \\ & 4 \\ & 5 \\ & 6 \\ & 7 \\ & 88 \end{aligned}$ | C5 |
| What is your ethnical background? | Georgian Armenian Azeri <br> Ossetian <br> Russian <br> Other <br> Refused | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 77 \\ & \hline 88 \\ & \hline \end{aligned}$ | C6 |
| What is your marital status? | Never married Currently married Separated Divorced Widowed <br> Cohabitating Refused | $\begin{aligned} & \hline 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \\ & 88 \end{aligned}$ | C7 |
| Which of the following best describes your main work status over the past 12 months? <br> (USE SHOWCARD) | Government employee Non-government employee Self-employed Non-paid Student Homemaker Retired Unemployed (able to work) Unemployed (unable to work) Refused | $\begin{aligned} & \hline 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \\ & 7 \\ & 8 \\ & 9 \\ & 9 \end{aligned}$ | C8 |
| How many people older than 18 years, including yourself, live in your household? | Number of people | $\square$ | C9 |


| Demographic Information, Continued |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Question | Response |  |  | Code |
| Taking the past year, can you tell me what the average earnings of the household have been? <br> (RECORD ONLY ONE, NOT ALL 3) | Per wee | -1_1_1_1_ | Goto X1 | C10a |
|  | OR per mont | L-1 | Goto X1 | C10b |
|  | OR per yea | $\xrightarrow{\square}$ | Goto X1 | C10c |
|  | Refuse | 88 |  | C10d |
| If you don't know the amount, can you give an estimate of the annual household income if I read some options to you (per month)? <br> (READ OPTIONS) |  | $\begin{array}{r} \leq 250 \mathrm{GeL} \\ 251-500 \mathrm{GeL} \\ 501-1000 \mathrm{GeL} \\ 1001-1500 \mathrm{GeL} \\ >1500 \mathrm{GeL} \\ \text { Don't know } \\ \text { Refused } \end{array}$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 77 \\ & 88 \end{aligned}$ | C11 |
| What is your religion? |  | Orthodox Cristian <br> Catholic <br> Gregorian <br> Muslim <br> Jewish <br> Not religious <br> Refused | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \\ & 88 \end{aligned}$ | X1 |

## Step 1 Behavioural Measurements

| Tobacco Use |  |  |
| :---: | :---: | :---: |
| Now I am going to ask you some questions about tobacco use. |  |  |
| Question | Response | Code |
| Do you currently smoke any tobacco products, such as cigarettes, cigars or pipes? <br> (USE SHOWCARD) | $\begin{array}{lll} \text { Yes } & 1 & \\ \text { No } & 2 & \text { If No, go to T8 } \end{array}$ | T1 |
| Do you currently smoke tobacco products daily? | $\begin{array}{cc} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | T2 |
| How old were you when you first started smoking? | Age (years) <br>  | T3 |
| Do you remember how long ago it was? <br> (RECORD ONLY 1, NOT ALL 3) <br> Don't know 77 | In Years | T4a |
|  | OR in Months | T4b |
|  | OR in Weeks | T4c |
| On average, how many of the following products do you smoke each day/week? <br> (IF LESS THAN DAILY, RECORD WEEKLY) <br> (RECORD FOR EACH TYPE, USE SHOWCARD) <br> Don't Know 7777 | DAILY $\downarrow$ WEEKLY $\downarrow$ |  |
|  | Manufactured cigarettes $\quad$ L | T5a/T5aw |
|  | Hand-rolled cigarettes $\quad$ L | T5b/T5bw |
|  | Pipes full of tobacco | T5c/T5cw |
|  |  | T5d/T5dw |
|  | Number of Shisha sessions | T5e/T5ew |
|  |  | T5f/T5fw |
|  | Other (please specify): | T5other/ T5otherw |
| During the past 12 months, have you tried to stop smoking? | $\begin{array}{lll} \text { Yes } & 1 & \\ \text { No } & 2 & \text { goto } 77 \\ \hline \end{array}$ | T6 |
| During the last 12 months which methods to quit smoking did you use? | Consultation at the Primary Healthcare level 1 <br> Nicotine Replacement Therapy 2 <br> Drugs (Buproprion, Tabex) 3 <br> Telephone consultation 4 <br> Electronic Cigarette 5 <br> Other, Specify-------------------------------- 77 <br> None 88 | X2 |
| During any visit to a doctor or other health worker in the past 12 months, were you advised to quit smoking tobacco? | Yes 1 If $T 2=$ Yes, go to $T 12$; if $T 2=N$ o, go to T9 <br> No 2 If $T 2=Y_{\text {es, }}$ go to $T 12$; if $T 2=N o$, go to $T 9$ <br> No visit during the past 12   <br> months 3 If $T 2=$ Yes, go to $T 12$; if $T 2=N$, go to T9 | T7 |
| In the past, did you ever smoke any tobacco products? (USE SHOWCARD) | Yes 1 <br> No 2 If No, go to T12 | T8 |
| In the past, did you ever smoke daily? | Yes 1 If $T 1=$ Yes, go to $T 12$, else go to $T 10$ <br> No 2 If $T 1=$ Yes, go to $T 12$, else go to T10 | T9 |

Tobacco Use

| Question | Response |  | Code |
| :---: | :---: | :---: | :---: |
| How old were you when you stopped smoking? | Age (years) <br> Don't Know 77 | If Known, go to T12 | T10 |
| How long ago did you stop smoking? <br> (RECORD ONLY 1, NOT ALL 3) <br> Don't Know 77 | Years ago | L_ـ_If If Known, go to T12 | T11a |
|  | OR Months ago | L_ـ._If Known, go to T12 | T11b |
|  | OR Weeks ago | - | T11c |
| Do you currently use any smokeless tobacco products such as [snuff, chewing tobacco, betel]? (USE SHOWCARD) | Yes <br> No | $\begin{aligned} & 1 \\ & 2 \text { If No, go to T15 } \end{aligned}$ | T12 |
| Do you currently use smokeless tobacco products daily? | $\begin{aligned} & \text { Yes } \\ & \text { No } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | T13 |
| On average, how many times a day/week do you use .... <br> (IF LESS THAN DAILY, RECORD WEEKLY) <br> (RECORD FOR EACH TYPE, USE SHOWCARD) <br> Don't Know 7777 | DAILY $\downarrow$ WEEKLY $\downarrow$ |  |  |
|  | Snuff, by mouth | L | $\begin{aligned} & \text { T14al } \\ & \text { T14aw } \end{aligned}$ |
|  | Snuff, by nose |  | $\begin{gathered} \text { T14b/ } \\ \text { T14bw } \end{gathered}$ |
|  | Chewing tobacco | L | $\begin{aligned} & \mathrm{T} 14 \mathrm{c} / \\ & \mathrm{T} 14 \mathrm{cw} \end{aligned}$ |
|  | Betel, quid | $\square$ | $\begin{aligned} & \text { T14d/ } \\ & \text { T14dw } \end{aligned}$ |
|  | Other |  <br> If Other, go to T14other, if T13=No, go to T16, else go to T17 | T14e/ T14ew |
|  | Other (please specify): | If T13=No, go to T16, else go to T17 | T14other/ T14otherw |
| In the past, did you ever use smokeless tobacco products such as [snuff, chewing tobacco, or betel]? | Yes <br> No | 1 <br> 2 If No, go to T17 | T15 |
| In the past, did you ever use smokeless tobacco products such as [snuff, chewing tobacco, or betel] daily? | Yes <br> No | $\begin{array}{r} 1 \\ 2 \\ \hline \end{array}$ | T16 |
| During the past 30 days, did someone smoke in your home? | $\begin{gathered} \text { Yes } \\ \text { No } \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | T17 |
| During the past 30 days, did someone smoke in closed areas in your workplace (in the building, in a work area or a specific office)? | Yes <br> No <br> Don't work in a closed area | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | T18 |

## Tobacco Policy

You have been asked questions on tobacco consumption before. The next questions ask about tobacco control policies. They include questions on vour exposure to the media and advertisement, on ciqarette promotions, health warnings and cigarette purchase.

## Question $\quad$ Response $\quad$ Code

During the past 30 days, have you noticed information about the dangers of smoking cigarettes or that encourages quitting through the following media?
(RECORD FOR EACH)

| Newspapers or magazines | Yes No Don't know | 1 2 77 | TP1a |
| :---: | :---: | :---: | :---: |
| Television | Yes No Don't know | 1 <br> 2 <br> 77 | TP1b |
| Radio | Yes No Don't know | 1 2 77 | TP1c |
| During the past 30 days, have you noticed any advertisements or signs promoting cigarettes in stores where cigarettes are sold? | Yes No Don't know | 1 2 77 | TP2 |

During the past 30 days, have you noticed any of the
following types of cigarette promotions?
(RECORD FOR EACH)

| Free samples of cigarettes | $\begin{aligned} & \text { Yes } 1 \\ & \text { No } 2 \\ & \text { Don't know } 77 \\ & \hline \end{aligned}$ | TP3a |
| :---: | :---: | :---: |
| Cigarettes at sale prices | $\begin{aligned} & \text { Yes } 1 \\ & \text { No } 2 \\ & \text { Don't know } 77 \\ & \hline \end{aligned}$ | TP3b |
| Coupons for cigarettes | $\begin{array}{rr} \text { Yes } & 1 \\ \text { No } & 2 \\ \text { Don't know } & 77 \\ \hline \end{array}$ | TP3c |
| Free gifts or special discount offers on other products when buying cigarettes | $\begin{aligned} & \text { Yes } 1 \\ & \text { No } 2 \\ & \text { Don't know } 77 \\ & \hline \end{aligned}$ | TP3d |
| Clothing or other items with a cigarette brand name or logo | Yes 1 <br> No 2 <br> Don't know 77 | TP3e |
| Cigarette promotions in the mail | $\begin{aligned} & \text { Yes } 1 \\ & \text { No } 2 \\ & \text { Don't know } 77 \\ & \hline \end{aligned}$ | TP3f |
| The next questions TP4 - TP7 are administered | rrent smokers only. |  |
| During the past 30 days, did you notice any health warnings on cigarette packages? | Yes 1  <br> No 2 If no, go to TP6 <br> Did not see any cigarette packages If "did not see any cigarette <br> packages", go to TP6  <br> Don't know 77 If Don't know, go to TP6  | TP4 |
| During the past 30 days, have warning labels on cigarette packages led you to think about quitting? | Yes 1 <br> No 2 <br> Don't know 77 | TP5 |
| The last time you bought manufactured cigarettes for yourself, how many cigarettes did you buy in total? | $\quad$ Number of cigarettes If "Don't know or don't smoke or <br> Don't know or Don't smoke or purchase manuf. cig.", end section | TP6 |
| In total, how much money did you pay for this purchase? <br> (DIGITS TO BE ADAPTED TO COUNTRY NEEDS) |  | TP7 |



## Alcohol Consumption, continued

I have just asked you about your consumption of alcohol during the past 7 days. The questions were about alcohol in general, while the next questions refer to your consumption of homebrewed alcohol, alcohol brought over the border/from another country, any alcohol not intended for drinking or other untaxed alcohol. Please only think about these types of alcohol when answering the next questions.

| Question | Response | Code |
| :---: | :---: | :---: |
| During the past 7 days, did you consume any homebrewed alcohol, any alcohol brought over the border/from another country, any alcohol not intended for drinking or other untaxed alcohol? <br> (USE SHOWCARD) | Yes 1 <br> No 2 If No, go to A13 | A11 |
| On average, how many standard drinks of the following did you consume during the past 7 days? |  | A12a |
|  | Homebrewed beer or wine | A12b |
| NSERT COUNTRY-SPECIFIC EXAMPLES] | Alcohol brought over the border/from another country $\qquad$ | A12c |
| (USE SHOWCARD) | Alcohol not intended for drinking, e.g. alcohol-based medicines, perfumes, after shaves | A12d |
| Don't Know 77 | Other untaxed alcohol in the country $\qquad$ | A12e |

## Alcohol Consumption

| During the past 12 months, how often have you found that you were not able to stop drinking once you had started? | Daily or almost daily <br> Weekly <br> Monthly <br> Less than monthly <br> Never | 5 | A13 |
| :---: | :---: | :---: | :---: |
| During the past 12 months, how often have you needed a first drink in the morning to get yourself going after a heavy drinking session? | Daily or almost daily <br> Weekly <br> Monthly <br> Less than monthly <br> Never | 1 2 3 4 5 | A15 |


| Diet |  |  |  |
| :---: | :---: | :---: | :---: |
| The next questions ask about the fruits and vegetables that you usually eat. I have a nutrition card here that shows you some examples of local fruits and vegetables. Each picture represents the size of a serving. As you answer these questions please think of a typical week in the last year. |  |  |  |
| Question | Response |  | Code |
| In a typical week, on how many days do you eat fruit? (USE SHOWCARD) | Number of days <br> Don't Know 77 <br> $\square$ | If Zero days, go to D3 | D1 |
| How many servings of fruit do you eat on one of those days? (USE SHOWCARD) | Number of servings Don't Know 77 $\qquad$ |  | D2 |
| In a typical week, on how many days do you eat vegetables? (USE SHOWCARD) | Number of days Don't Know 77 $\qquad$ | If Zero days, go to X3 | D3 |
| How many servings of vegetables do you eat on one of those days? (USE SHOWCARD) | Number of servings <br> Don't know 77 $\qquad$ |  | D4 |
| In a typical week, on how many days do you eat meat or meat products? | Number of days <br> Don't Know 77 <br> $\square$ | If Zero days, go to X4 | X3 |
| In a typical week, on how many days do you eat fish or sea products? | Number of days Don't Know 77 $\qquad$ | If Zero days, go to X5 | X4 |
| In a typical week, on how many days do you drink milk or milk products? | Number of days Don't Know 77 $\qquad$ | If Zero days, go to X6 | X5 |
| In a typical week, on how many days do you eat bread or bread products? | Number of days Don't Know 77 $\qquad$ | If Zero days, go to X7 | X6 |
| In a typical week, on how many days do you eat sugar or sweet products? | Number of days Don't Know 77 $\qquad$ | If Zero days, go to X8 | X7 |
| How many times a day you usually eat? | I don't eat everyday 1 <br> Once a day 2 <br> Twice a day 3 <br> 3 times a day 4 <br> 4 times a day 5 <br> More than 4 times a day 6 <br> Don't Know 77 |  | X8 |
| Dietary salt |  |  |  |
| With the next questions, we would like to learn more about salt in your diet. Dietary salt includes ordinary table salt, unrefined salt such as sea salt, iodized salt, salty stock cubes and powders, and salty sauces such as soya sauce or fish sauce (see showcard). The following questions are on adding salt to the food right before you eat it, on how food is prepared in your home, on eating processed foods that are high in salt such as marinade vegetables, smoked meat, smoked cheese, adjika, tkemali etc., and questions on controlling your salt intake. Please answer the questions even if you consider yourself to eat a diet low in salt. |  |  |  |
| How often do you add salt or a salty sauce such as soya sauce to your food right before you eat it or as you are eating it? <br> (SELECT ONLY ONE) <br> (USE SHOWCARD) | Always <br> Often <br> Sometimes <br> Rarely <br> Never <br> Don't know | 3 4 5 77 | D5 |
| How often is salt, salty seasoning or a salty sauce added in cooking or preparing foods in your household? | Always <br> Often <br> Sometimes <br> Rarely <br> Never <br> Don't know | 2 3 4 5 77 | D6 |


| How often do you eat processed food high in salt? By processed food high in salt, I mean foods that have been altered from their natural state, such as packaged salty snacks, canned salty food including pickles and preserves, salty food prepared at a fast food restaurant, cheese, bacon and processed meat [add marinade vegetables, smoked meat, smoked cheese, etc. (USE SHOWCARD) | Always Often Sometimes Rarely Never Don't know | 1 2 3 4 5 77 | D7 |
| :---: | :---: | :---: | :---: |
| How much salt or salty sauce do you think you consume? | Far too much Too much Just the right amount Too little Far too little Don't know | 1 2 3 4 5 77 | D8 |



## Physical Activity

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.
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. [Insert other examples if needed]. 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.

| Question | Response |  | Code |
| :---: | :---: | :---: | :---: |
| Work |  |  |  |
| Does your work involve vigorous-intensity activity that causes large increases in breathing or heart rate like [carrying or lifting heavy loads, digging or construction work] for at least 10 minutes continuously? <br> (USE SHOWCARD) | Yes <br> No | 1 <br> 2 If No, go to P 4 | P1 |
| In a typical week, on how many days do you do vigorousintensity activities as part of your work? | Number of days | $\llcorner$ | P2 |
| How much time do you spend doing vigorous-intensity activities at work on a typical day? | Hours : minutes |  | $\begin{gathered} \text { P3 } \\ (\mathrm{a}-\mathrm{b}) \end{gathered}$ |
| Does your work involve moderate-intensity activity that causes small increases in breathing or heart rate such as brisk walking [or carrying light loads] for at least 10 minutes continuously? <br> (USE SHOWCARD) | Yes <br> No | 1 $2 \text { If } N o \text {, go to } P 7$ | P4 |
| In a typical week, on how many days do you do moderateintensity activities as part of your work? | Number of days | $\llcorner$ | P5 |
| How much time do you spend doing moderate-intensity activities at work on a typical day? | Hours : minutes |  | $\begin{gathered} \text { P6 } \\ (\mathrm{a}-\mathrm{b}) \end{gathered}$ |
| Travel to and from places |  |  |  |
| 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 market, to place of worship. [Insert other examples if needed] |  |  |  |
| Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places? | Yes <br> No | $\begin{aligned} & 1 \\ & 2 \text { If No, go to P } 10 \end{aligned}$ | P7 |
| In a typical week, on how many days do you walk or bicycle for at least 10 minutes continuously to get to and from places? | Number of days | $\square$ | P8 |
| How much time do you spend walking or bicycling for travel on a typical day? | Hours : minutes |  | $\begin{gathered} \text { P9 } \\ (\mathrm{a}-\mathrm{b}) \end{gathered}$ |


| Physical Activity, Continued |  |  |  |
| :---: | :---: | :---: | :---: |
| Question | Response |  | Code |
| Recreational activities |  |  |  |
| The next questions exclude the work and transport activities that you have already mentioned. Now I would like to ask you about sports, fitness and recreational activities (leisure) |  |  |  |
| Do you do any vigorous-intensity sports, fitness or recreational (leisure) activities that cause large increases in breathing or heart rate like [running or football] for at least 10 minutes continuously? <br> USE SHOWCARD) |  | 2 If No, go to P 13 | P10 |
| In a typical week, on how many days do you do vigorousintensity sports, fitness or recreational (leisure) activities? | Number of day | $\square$ | P11 |
| How much time do you spend doing vigorous-intensity sports, fitness or recreational activities on a typical day? | Hours : minute |  | $\begin{aligned} & \text { P12 } \\ & (\mathrm{a}-\mathrm{b}) \end{aligned}$ |
| Do you do any moderate-intensity sports, fitness or recreational (leisure) activities that cause a small increase in breathing or heart rate such as brisk walking, [cycling, swimming, and volleyball] for at least 10 minutes continuously? <br> (USE SHOWCARD) | Ye | $2 \text { If No, go to P16 }$ | P13 |
| In a typical week, on how many days do you do moderateintensity sports, fitness or recreational (leisure) activities? | Number of day | L. | P14 |
| How much time do you spend doing moderate-intensity sports, fitness or recreational (leisure) activities on a typical day? | Hours : minute | $\underset{\text { hrs }}{\stackrel{\perp}{L}: \quad \underset{\text { mins }}{L ـ \perp ـ}}$ | $\begin{aligned} & \text { P15 } \\ & \text { (a-b) } \end{aligned}$ |

## Physical Activity

## Sedentary behaviour

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. (USE SHOWCARD)

How much time do you usually spend sitting or reclining on a typical day?
Hours : minutes $\underset{\text { hrs }}{\text { mins }}$

| History of Raised Blood Pressure |  |  |
| :---: | :---: | :---: |
| Question | Response | Code |
| Have you ever had your blood pressure measured by a doctor or other health worker? | Yes 1 <br> No 2 If No, go to H6 | H1 |
| Have you ever been told by a doctor or other health worker that you have raised blood pressure or hypertension? | Yes 1 <br> No 2 If No, go to H6 | H2a |
| Have you been told in the past 12 months? | $\begin{array}{cc} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | H2b |
| In the past two weeks, have you taken any drugs (medication) for raised blood pressure prescribed by a doctor or other health worker? | $\begin{array}{cc} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | H3 |
| What is the regime of taking drugs? | Everyday despite the blood pressure numbers 1 <br> When the pressure is high 2 <br> Irregularly, when remember 3 | X9 |
| Which drug do you take? (note all drugs respondent mentions) | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ | X10 |
| Have you ever seen a traditional healer for raised blood pressure or hypertension? | $\begin{array}{cc} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | H4 |
| Are you currently taking any herbal or traditional remedy for your raised blood pressure? | $\begin{array}{cc} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | H5 |


| Have you ever had your blood sugar measured by a doctor or other health worker? | $\begin{gathered} \text { Yes } \\ \text { No } \end{gathered}$ |  | If No, go to H12 | H6 |
| :---: | :---: | :---: | :---: | :---: |
| Have you ever been told by a doctor or other health worker that you have raised blood sugar or diabetes? | $\begin{gathered} \text { Yes } \\ \text { No } \end{gathered}$ | 1 2 | If No, go to H12 | H7a |
| Have you been told in the past 12 months? | Yes No | 1 2 |  | H7b |
| In the past two weeks, have you taken any drugs (medication) for diabetes prescribed by a doctor or other health worker? | $\begin{gathered} \text { Yes } \\ \text { No } \end{gathered}$ | 1 2 |  | H8 |
| Are you currently taking insulin for diabetes prescribed by a doctor or other health worker? | $\begin{aligned} & \text { Yes } \\ & \text { No } \end{aligned}$ | 1 2 |  | H9 |
| Have you ever seen a traditional healer for diabetes or raised blood sugar? | $\begin{gathered} \text { Yes } \\ \text { No } \end{gathered}$ | 1 2 |  | H10 |
| Are you currently taking any herbal or traditional remedy for your diabetes? | $\begin{gathered} \text { Yes } \\ \text { No } \end{gathered}$ | 1 2 |  | H11 |


| History of Raised Total Cholesterol |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Question | Response |  |  | Code |
| Have you ever had your cholesterol (fat levels in your blood) measured by a doctor or other health worker? | Yes <br> No |  | If No, go to H 17 | H12 |
| Have you ever been told by a doctor or other health worker that you have raised cholesterol? | $\begin{aligned} & \text { Yes } \\ & \text { No } \end{aligned}$ | 1 2 | If No, go to H17 | H13a |
| Have you been told in the past 12 months? | Yes <br> No | 1 2 |  | H13b |
| In the past two weeks, have you taken any oral treatment (medication) for raised total cholesterol prescribed by a doctor or other health worker? | Yes <br> No | 1 2 |  | H14 |
| Have you ever seen a traditional healer for raised cholesterol? | Yes <br> No | 1 2 |  | H15 |
| Are you currently taking any herbal or traditional remedy for your raised cholesterol? | Yes <br> No | 2 |  | H16 |


| History of Cardiovascular Diseases |  |  |  |
| :--- | :---: | :---: | :---: |
| Have you ever had a heart attack or chest pain from heart <br> disease (angina) or a stroke (cerebrovascular accident or <br> incident)? | Yes 1 |  |  |
| Are you currently taking aspirin regularly to prevent or treat heart <br> disease? | No 2 | H17 |  |
| Are you currently taking statins <br> (Lovastatin/Simvastatin/Atorvastatin/Rosuvastatin or any other <br> statin) regularly to prevent or treat heart disease? | Yes 1 | H18 |  |
| Have you ever been told by a doctor or other health worker that <br> you have Atrial Fibrillation/? | No | 2 | Yes 1 |
| Have you ever been told by a doctor or other health worker that <br> you have chronic vein vessel disease or varicose veins of lower <br> extremities or deep vein thrombosis (DVT)? | No 2 | H19 |  |
| Are you currently taking anticoagulants (Aspirin/Heparin) <br> prescribed by a doctor or other health worker? | Yes 1 | X11 |  |

## Lifestyle Advice



## (for women only): Cervical Cancer Screening

The next question asks about cervical cancer prevention. Screening tests for cervical cancer prevention can be done in different ways, including Visual Inspection with Acetic Acid/vinegar (VIA), pap smear and Human Papillomavirus (HPV) test. VIA is an inspection of the surface of the uterine cervix after acetic acid (or vinegar) has been applied to it. For both pap smear and HPV test, a doctor or nurse uses a swab to wipe from inside your vagina, take a sample and send it to a laboratory. It is even possible that you were given the swab yourself and asked to swab the inside of your vagina. The laboratory checks for abnormal cell changes if a pap smear is done, and for the HP virus if an HPV test is done.

| Question | Response | Code |
| :--- | :---: | :---: |
|  | Yes 1 |  |
| Have you ever had a screening test for cervical cancer, using <br> any of these methods described above? | No 2 | CX1 |
|  | Don't know 77 |  |

Admission to the medical personnel


## Oral Health

The next questions ask about your oral health status and related behaviours.

| Question | Response | Code |
| :---: | :---: | :---: |
| How many natural teeth do you have? | No natural teeth 1 If no natural teeth, go to 06 <br> 1 to 9 teeth 2  <br> 10 to 19 teeth 3  <br> 20 teeth or more 4  <br> Don't know 77  | 01 |
| During the past 12 months, did your teeth or mouth cause any pain or discomfort? | $\begin{array}{cc} \hline \text { Yes } & 1 \\ \text { No } & 2 \\ \hline \end{array}$ | 06 |
| How often do you clean your teeth? | Never 1 If Never, go to MH1 <br> Once a month 2 <br> 2-3 times a month 3 <br> Once a week 4 <br> 2-6 times a week 5 <br> Once a day 6 <br> Twice or more a day 7 | 09 |

## Mental health / Suicide

The next questions ask about thoughts, plans, and attempts of suicide. Please answer the questions even if no one usually talks about these issues.

| Question | Response |  | Code |
| :---: | :---: | :---: | :---: |
| During the past 12 months, have you seriously considered attempting suicide? |  | $\begin{aligned} & 1 \\ & 2 \\ & 88 \end{aligned} \quad \text { If No, go to MH4 }$ | MH1 |
| During the past 12 months, have you made a plan about how you would attempt suicide? |  | $\begin{aligned} & \hline 1 \\ & 2 \\ & 88 \\ & \hline \end{aligned}$ | MH3 |
| Have you ever attempted suicide? | Yes No Refused | $\begin{aligned} & \hline 1 \\ & 2 \\ & 88 \end{aligned}$ | MH4 |


| Injury | Response |  |
| :--- | ---: | ---: | :--- | :--- |
| The next questions ask about different experiences and behaviours that are related to road traffic injuries. |  |  |
| Question | Yes (as driver) | 1 | $\square$ , L


| Violence |  |  |
| :---: | :---: | :---: |
| The following questions are about different experiences and behaviours that are related to violence. |  |  |
| Question | Response | Code |
| In the past 12 months, how many times were you in a violent incident in which you were injured and required medical attention? | Never 1 go to SH1 <br> Rarely (1-2 times) 2  <br> Sometimes (3-5 times) 3  <br> Often (6 or more times) 4  <br> Don't know 77 go to SH1 <br> Refused 88 go to SH1 | V11 |
| The next questions ask about the most serious violent incidence you have had in the past 12 months. |  |  |
| Please indicate which of the following caused your most serious injury in the last 12 months. | Being shot with a firearm 1 <br> A weapon (other than a firearm) was <br> used by the person who injured me 2 <br> Being injured without any weapon <br> (slapped, pushed...) 3 <br> Don't know 77 <br> Refused 88 | V12 |
| Please indicate the relationship between yourself and the person(s) who caused your injury. | Intimate partner 1 <br> Parent 2 <br> Child, sibling, or other relative 3 <br> Friend or acquaintance 4 <br> Unrelated caregiver 5 <br> Stranger 6 <br> Official or legal authorities 7 <br> Other (specify) 8 <br> Refused 88 | V13 |
|  | Other (please specify) | V130ther |

## Sexual Health (expanded questions are shaded)

The next questions ask about different experiences and behaviours that are related to sexual and reproductive health.

| Question | Response | Code |
| :---: | :---: | :---: |
| Have you ever had sexual intercourse? | Yes 1 <br> No 2 If No, finish the interview <br> Refused 88 | SH1 |
| How old were you when you first had sexual intercourse? <br> (USE SHOWCARDS) |  | SH2 |
| When did you last have sexual intercourse? | In the last week 1 <br> Between a week and a month ago 2 <br> Between a month and a year ago 3 <br> More than a year ago 4 If More than a year ago, finish the <br> interview <br> Don't remember 77 If Don't remember, finish the <br> interview <br> Refused 88 | SH5 |
| The last time you had sexual intercourse, did you use any kind of protection against pregnancy and/or infection? | Yes 1 <br> No 2 <br> If No, finish the interview  <br> Don't know 77 If Don't know, finish the interview <br> Refused 88 | SH9 |

The last time you had sexual intercourse, were any of the following methods of protection against pregnancy and/or infection used? (RECORD FOR EACH)

| A condom | Yes 1 <br> No 2 <br> Don't remember 77 | SH10a |
| :---: | :---: | :---: |
| The pill | $\begin{aligned} & \hline \text { Yes } 1 \\ & \text { No } 2 \\ & \text { Don't remember } 77 \\ & \hline \end{aligned}$ | SH10b |
| A different method | Yes 1 If Yes, please specify <br> No 2 <br> Don't remember 77 | SH10c |
|  | Other (please specify) | SH10cOther |
|  | No 2 <br> Don't remember 77 |  |
| Other | Yes 1 If Yes, please specify <br> No 2 <br> Don't remember 77 | SH11d |
|  | Other (please specify) | SH11dOther |

## Step 2 Physical Measurements

| Blood Pressure |  |  |
| :---: | :---: | :---: |
| Question | Response | Code |
| Interviewer ID | - لـ | M1 |
| Device ID for blood pressure | - | M2 |
| Cuff size used | Small 1 <br> Medium 2 <br> Large 3 | M3 |
| Reading 1 | Systolic ( mmHg ) | M4a |
|  | Diastolic (mmHg) | M4b |
| Reading 2 | Systolic ( mmHg ) | M5a |
|  | Diastolic (mmHg) | M5b |
| Reading 3 | Systolic ( mmHg) | M6a |
|  | Diastolic (mmHg) | M6b |
| During the past two weeks, have you been treated for raised blood pressure with drugs (medication) prescribed by a doctor or other health worker? | $\begin{array}{ll} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | M7 |
| Height and Weight |  |  |
| For women: Are you pregnant? | $\begin{array}{ll} \text { Yes } & 1 \text { If Yes, go to M } 16 \\ \text { No } & 2 \\ \hline \end{array}$ | M8 |
| Interviewer ID | $\square \ldots$ | M9 |
| Device IDs for height and weight |  | M10a M10b |
| Height | in Centimetres (cm) | M11 |
| Weight <br> If too large for scale 666.6 | in Kilograms (kg) لــــ | M12 |
| Waist |  |  |
| Device ID for waist | $\square$ | M13 |
| Waist circumference | in Centimeters (cm) | M14 |



## Step 3 Biochemical Measurements

| Blood Glucose |  |  |
| :---: | :---: | :---: |
| Question | Response | Code |
| During the past 12 hours have you had anything to eat or drink, other than water? | $\begin{array}{ll} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | B1 |
| Technician ID | -1. | B2 |
| Device ID | - | B3 |
| Time of day blood specimen taken (24 hour clock) |  | B4 |
| Fasting blood glucose | mmoll $\quad$ Lـ. . | B5 |
| Today, have you taken insulin or other drugs (medication) that have been prescribed by a doctor or other health worker for raised blood glucose? | $\begin{array}{ll} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | B6 |
| Blood Lipids |  |  |
| Device ID | $\xrightarrow{\square}$ | B7 |
| Total cholesterol | mmoll $\mathrm{L}^{\text {L._. }}$ | B8 |
| During the past two weeks, have you been treated for raised cholesterol with drugs (medication) prescribed by a doctor or other health worker? | $\begin{array}{ll} \text { Yes } & 1 \\ \text { No } & 2 \\ \hline \end{array}$ | B9 |
| Urinary sodium and creatinine |  |  |
| Had you been fasting prior to the urine collection? | $\begin{array}{ll} \text { Yes } & 1 \\ \text { No } & 2 \end{array}$ | B10 |
| Technician ID | $\square$ | B11 |
| Device ID | -1. | B12 |
| Time of day urine sample taken (24 hour clock) |  | B13 |
| Urinary sodium | mmoll $\mathrm{L}_{\text {L }}$ | B14 |
| Urinary creatinine | mmoll L | B15 |

Triglycerides and HDL Cholesterol

| Question | Response | Code |
| :---: | :---: | :---: |
| HDL Cholesterol <br> [CHOOSE ACCORDINGLY: MMOL/L OR MG/DL] | mmoll L.」. | B17 |
|  | mg/dl |  |


[^0]:    ${ }^{1}$ A 10 -year CVD risk of $\geq 30 \%$ is defined according to age, sex, blood pressure, smoking status (current smokers OR those who quit smoking less than 1 year before the assessment), total cholesterol, and diabetes (previously diagnosed OR a fasting plasma glucose concentration $>7.0 \mathrm{mmol} / \mathrm{l}$ ).

