

Non-communicable Diseases Risk-factors STEPS survey results

Lela Sturua

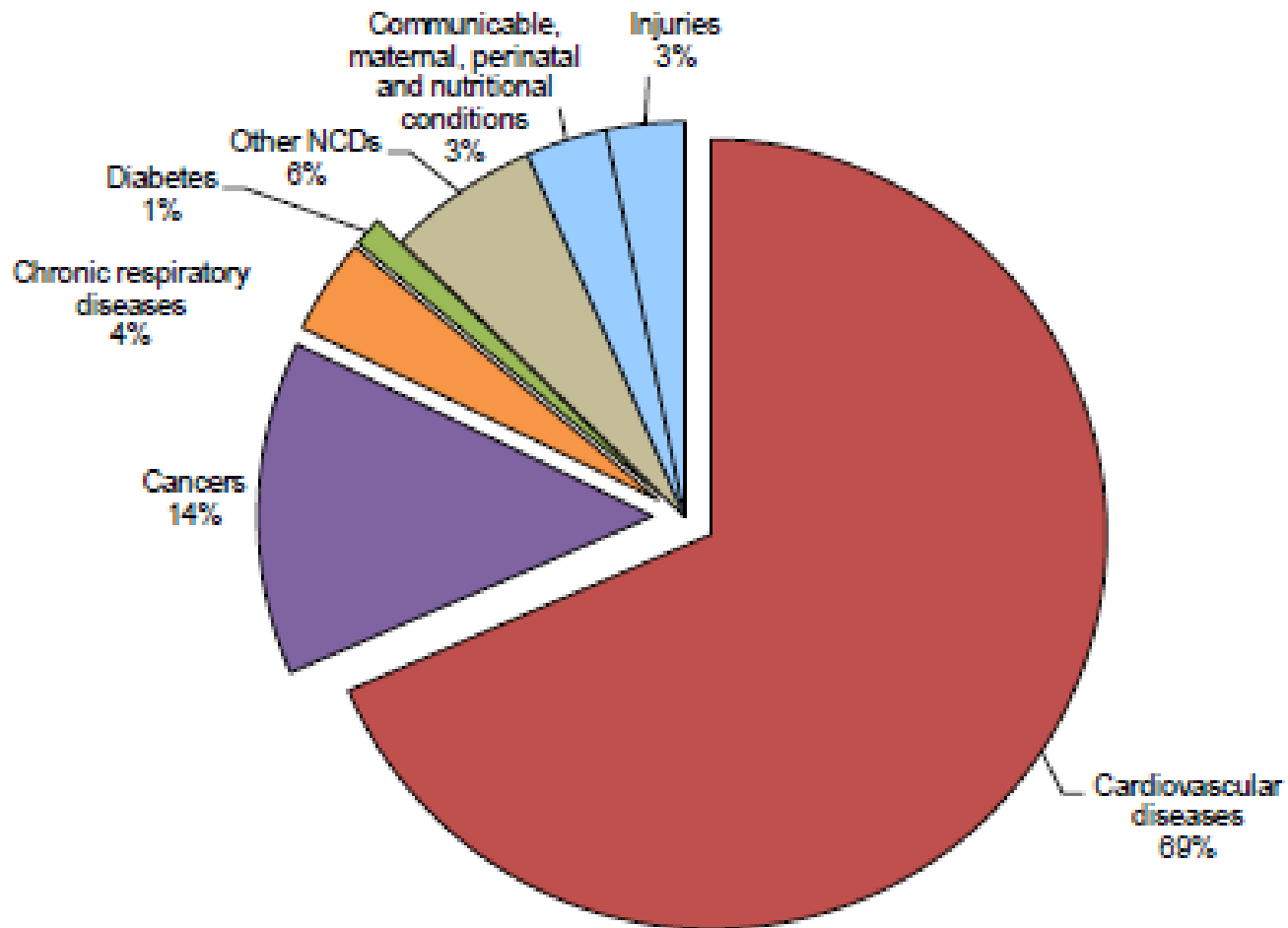
**Country Coordination Council on Non-communicable Diseases Prevention and Control
Expanded meeting
27 November, 2017**



**დაავადებათა კონტროლისა და საზოგადოებრივი
ჯანმრთელობის ეროვნული ცენტრი**

www.ncdc.ge

სიკვდილის მიზეზები, ყველა ასაკი, საქართველო 2014



World Health Organization - *Noncommunicable Diseases (NCD) Country Profiles*, 2014.



Non-communicable Diseases Surveillance

- Routine statistics
- Registries – cancer registry (2015), birth registry (2016)
- EIDSS
- Sentinel surveillance - „Strengthening of micronutrients deficiency surveillance systems” Collaborative Project / CDC USA – NCDC Georgia
- STEPS 2010 და STEPS 2016
- Other surveys
 - GeRHS, GNNS, GYTS, COSI, HBSC, ESPAD, HepC survey, Iodine survey...



STEPS 2016

Goal

to estimate NCDs and its risk-factors – behavioural and biological – prevalence, trends;
evidence based comparisons with different countries

To implement of the non-communicable Diseases prevention and control effective policy
and interventions



STEPS 2016

I - : Social-demographic indicators, behavioral risk-factors (tobacco, alcohol, unhealthy diet, physical inactivity, etc.)

II - Physical measurements

- height, weight, waist and hip circumference
- blood pressure, heart rate

III – Biological risk-factors (rapid tests)

- blood glucose, cholesterol, HDL cholesterol
- Urine Na and cotinine

Core modules

Optional modules: Oral health; Suicide; Sexual health; Violence and Trauma; Tobacco Control Policy

Georgian questions: antihypertensive drugs, different products, visits to doctors...



STEPS 2016

- A cross-sectional survey; Multi-stage cluster sampling of the general population aged 18-69 administrative regions (including capital City-Tbilisi) across Georgia; urban/rural, 4 age groups (18-29; 30-44; 45-59; 60-69)
- Sample size – 371 clusters; 5554 people; response rate – 75%
- 20 research teams - 40 interviewers, 20 nurse/lab personnel, 40 drivers
- 2 field coordinators – Tbilisi and East Georgia; West Georgia
- Samsung Galaxy Tab 4OS; Cardiochek PA; Growth Management Scale (330 HRS BMI); BMI calculator Seca 491; ergonomic Seca 201; test panels (Chol/HDL/Glu for Cardiocheck PA); Blood pressure monitor Bosch და Sohn Medicus UNO



STEPS 2016 / STEPS 2010-2016

Survey Results



STEPS 2016

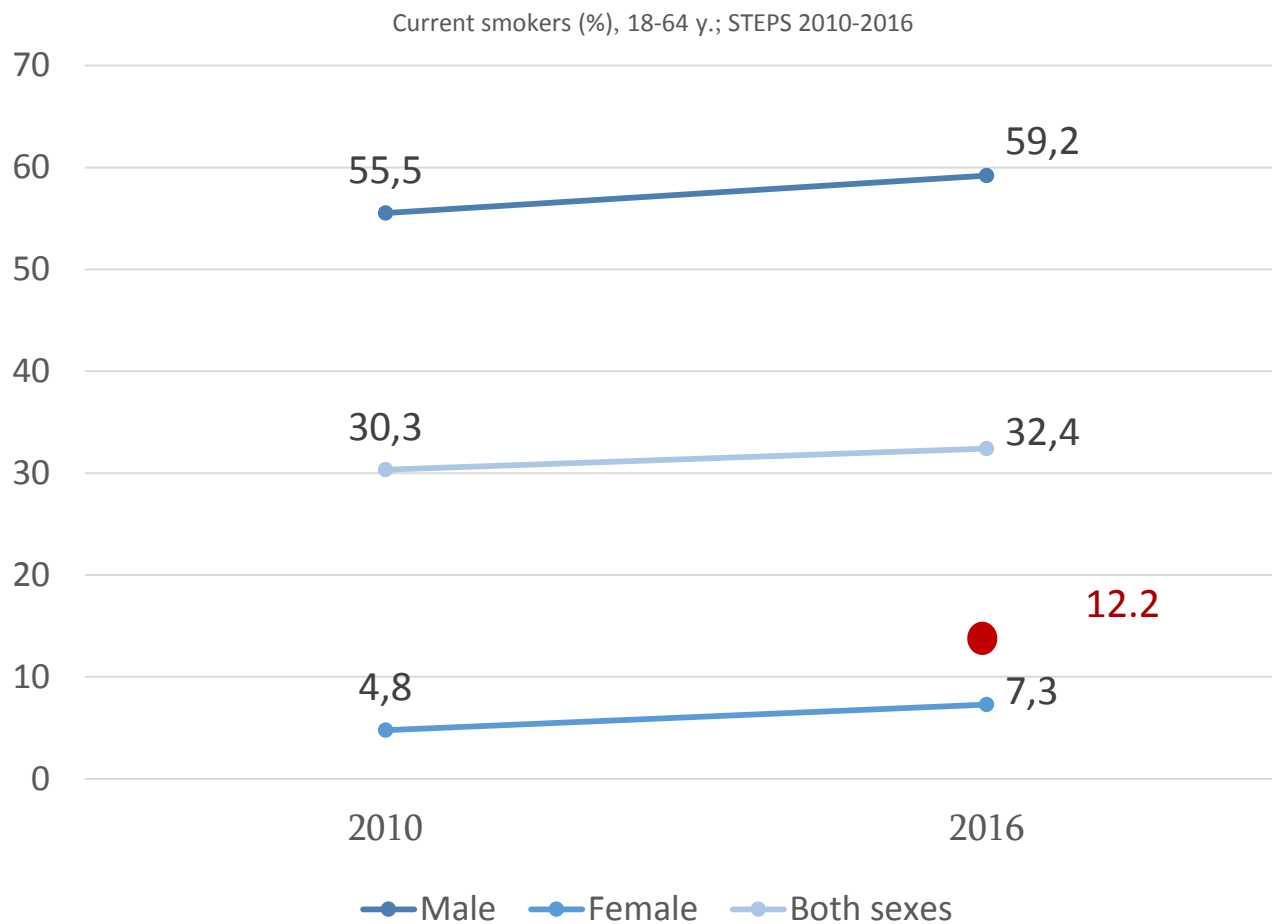
Tobacco

- Almost one third of Georgia's population (31%) are smokers
- current smokers - 57% of male and 7% of female; in fact, smoking prevalence in female is 12.2% (according to cotinine test)
- Average age of starting smoking: male - 17.7 years; female - 22.4 years
- The absolute majority of smokers (98.6%) smoke manufactured cigarettes
- Mean number of manufactured cigarettes smoked a day by daily smokers: 21.3 cigarettes (male 22.2 cigarettes, female 14.4 cigarettes)
- 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 applied: consultation on a primary healthcare level - 11.0%; electronic cigarettes - 9.4%
- 43% are exposed to secondhand smoke at home
- 15.8 % are exposed to secondhand smoke at their workplaces



STEPS 2010-2016

Tobacco



STEPS 2016

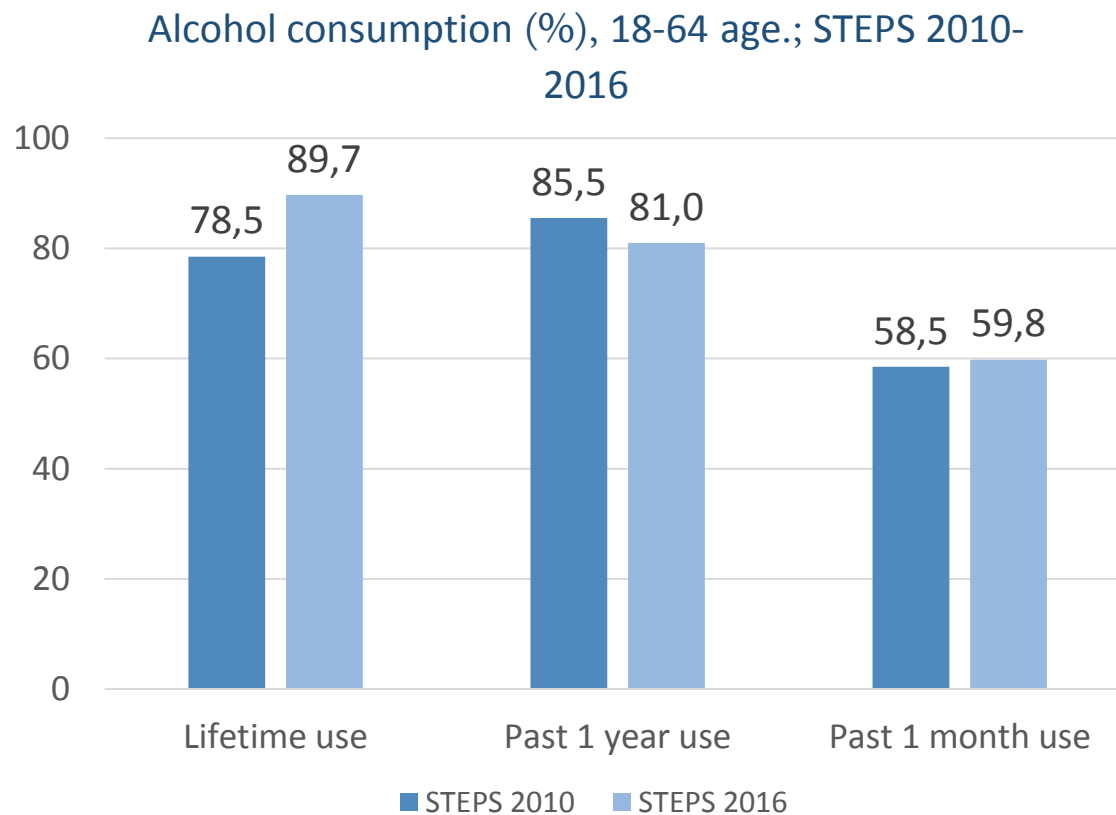
Alcohol

- 89.6% of respondents (male 96.1%, female 83.6%) consumed any alcohol at least once in a lifetime
- Current (during the past 30 days) alcohol consumption - 39% (male 58.9%, female 20.7%)
- Number of drinking occasions, standard drinks and heavy drinking occasionon are higher in male
Unregistered alcohol consumed during the past 7 days – 38.8% of current drinkers (male 43.6%, female 26%)
- Drinking alcohol 1-2 days in past weak – 1/3 of male and 55% of female



STEPS 2010-2016

Alcohol



STEPS 2016

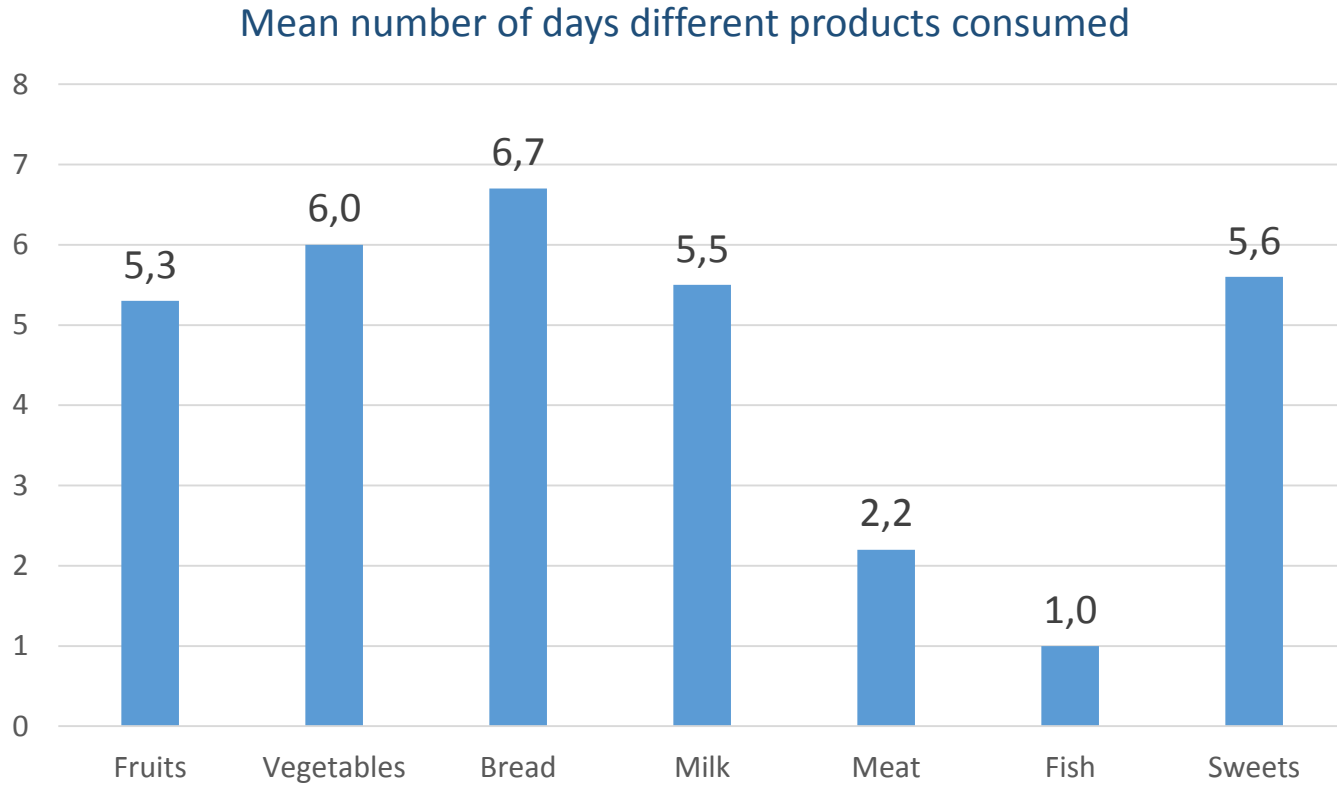
Diet

- 63.8% of male and 62.4% of female consume less than five servings of fruit and/or vegetables on average per day
- Fruits and vegetables are not consumed (at all) by 6% of male and 4% of female respondents



STEPS 2016

Diet

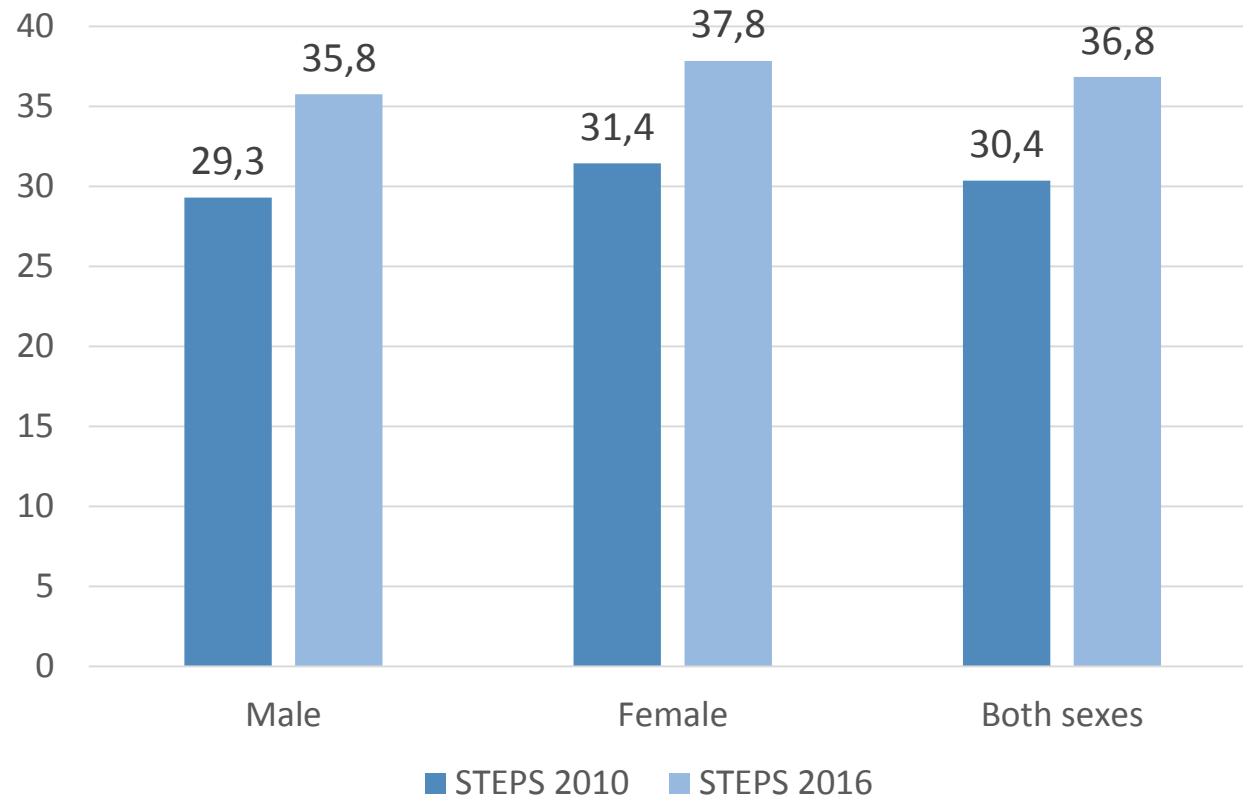


- 51.2% respondents eat three times a day; about 32% - 2 times a day; do not eat everyday - 0.1%

STEPS 2010-2016

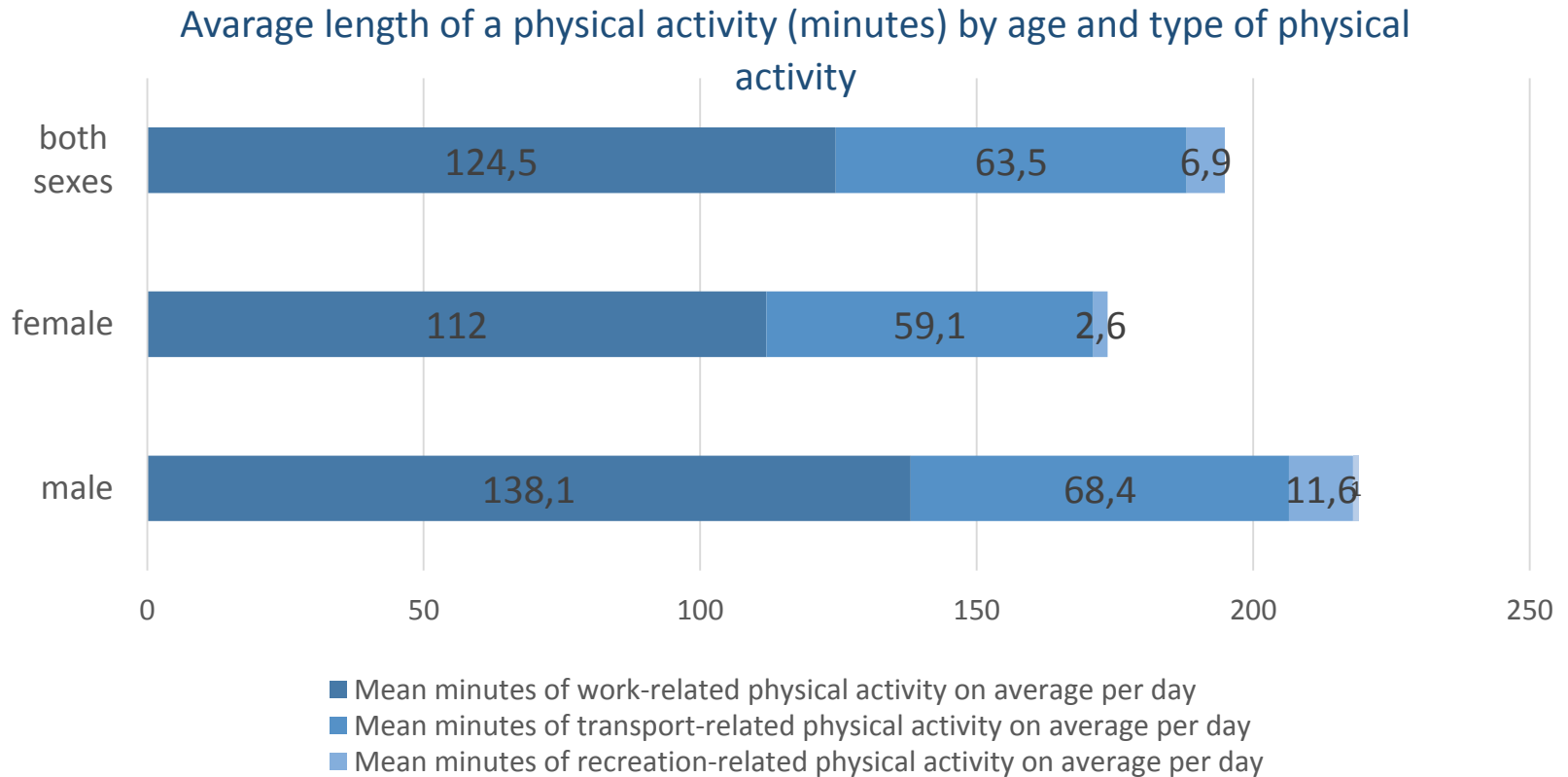
Diet

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



STEPS 2016

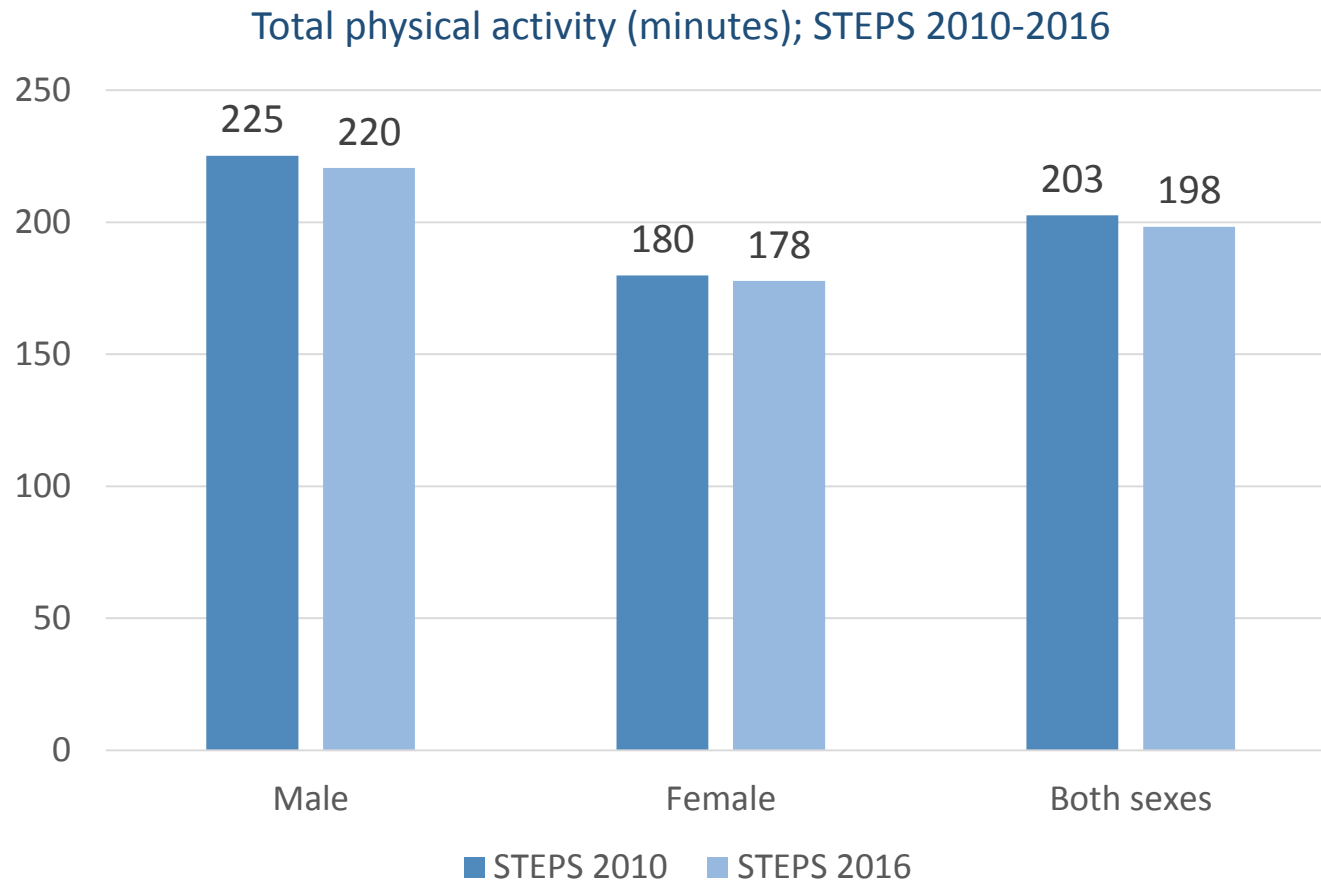
Physical Activity



Physical activity in 17.4% of respondents (male 16.2%, female 18.4%) do not meet WHO recommendations on physical activity

STEPS 2010-2016

Physical Activity



STEPS 2016

Anthropometry

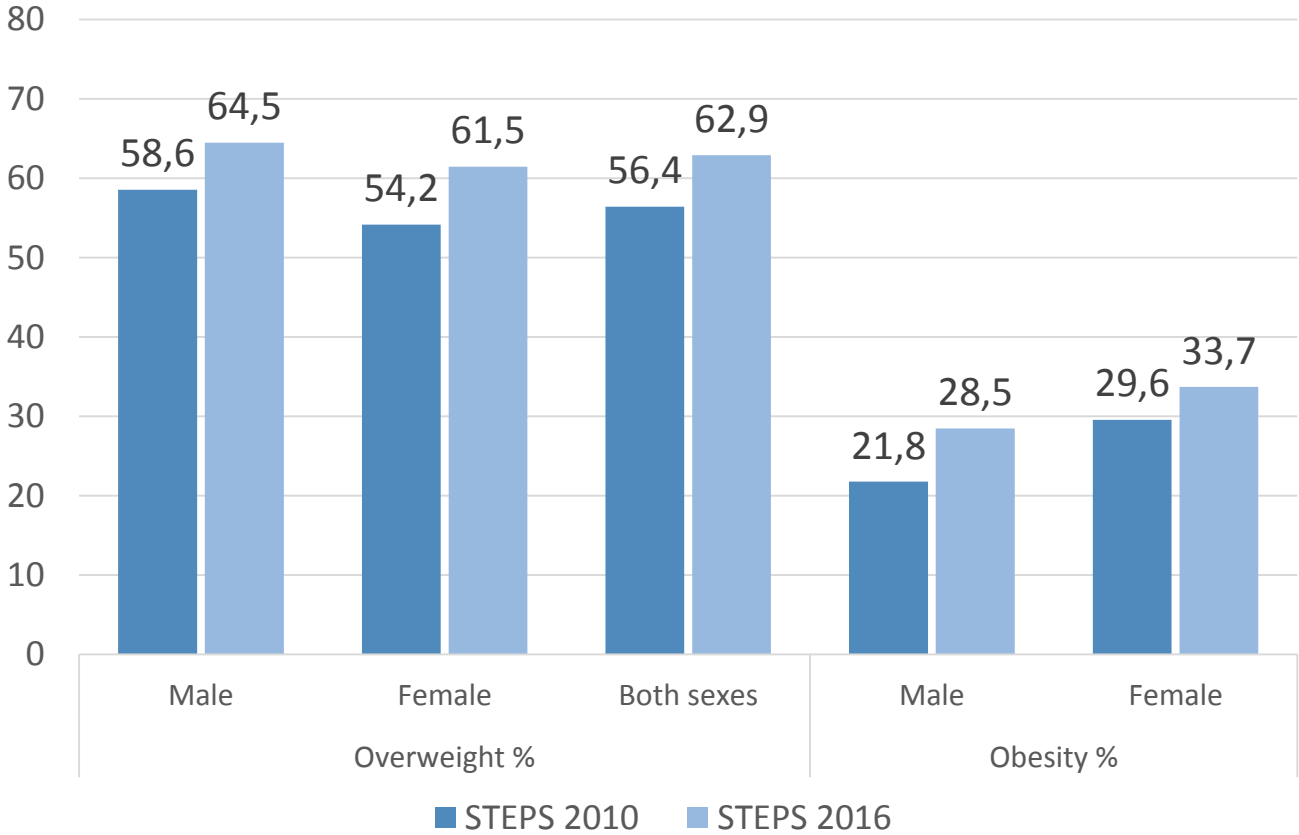
- Mean height in male - 173.8 cm; average male weight - 84.4 kg.
- Mean height in female is 161.2 cm; average female weight – 73.6 kg.
- Body Mass Index (Mean BMI - 28.1) (27.9 male and 28.3 female BMI); Body Mass Index increases with aging
- 64.6% of respondents are overweight or obese (MBI ≥ 25), 32.8% of respondents have normal weigh, 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)
- Waist-to-hip ratio - 1.0 among men, and 0.9 in women; both indexes are higher than the indices according to WHO definition of Obesity (male > 0.9 and female > 0.86)



STEPS 2010-2016

Overweight and obesity

Overweight and obesity, 18-64 y.; STEPS 2010-2016



STEPS 2016

Arterial Hypertension

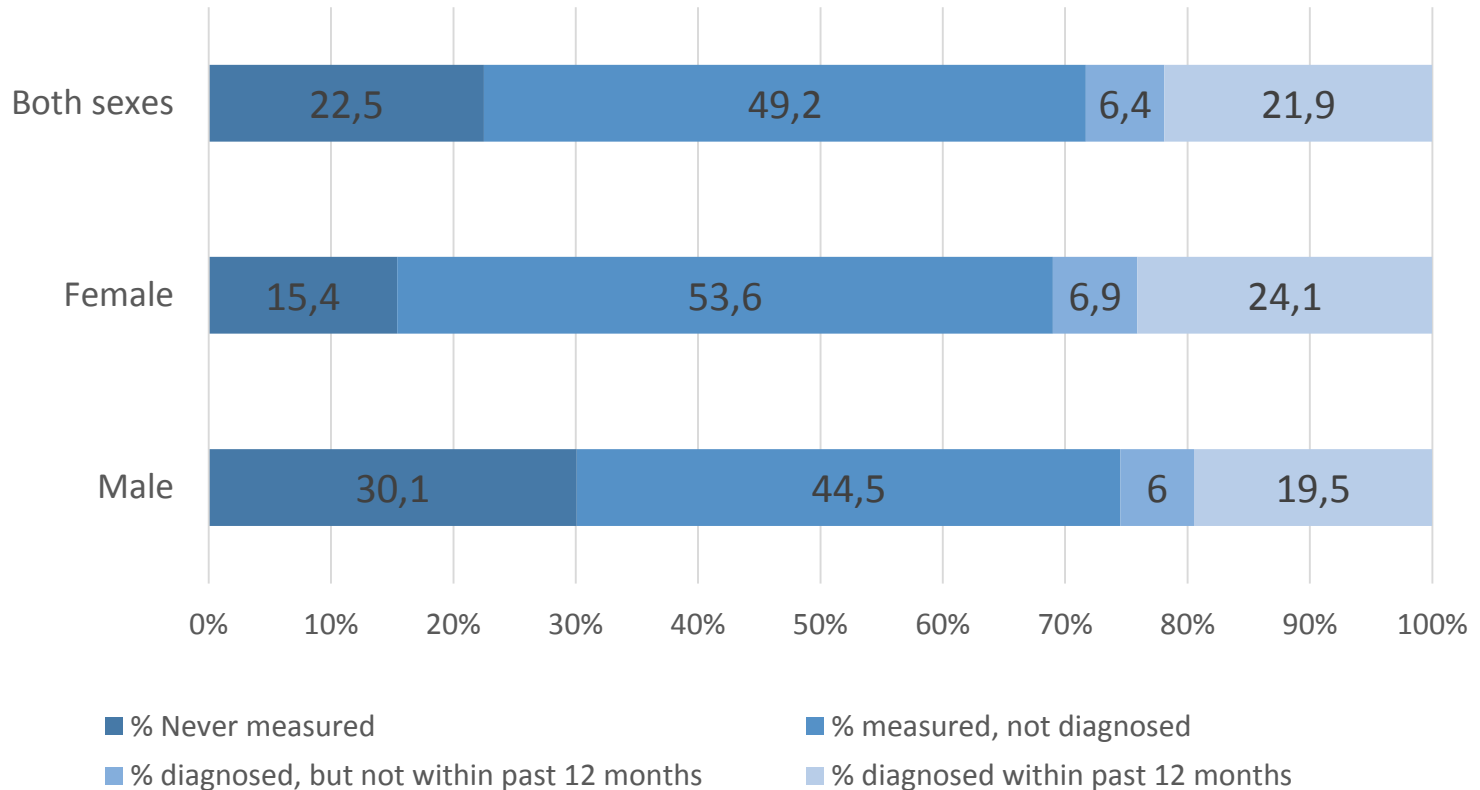
- 24.5% of respondents have never measured blood pressure by a doctor or other health worker
- 37.7% (male 38.6%, female 36.9%) have arterial hypertension ($\geq 140/100$ mmHg)
- Prevalence of stage II hypertension ($\geq 160/100$ mmHg) - 24.0% (male 22.8%, female 25.2%)
- Among those currently on medication for raised blood pressure 25.1% (male 28.7%, female 21.6%) has raised blood pressure
- Among those with raised blood pressure or currently on medication for raised blood pressure 16.4% (male-12.9% and female-19.7%) has normal blood pressure – controlled hypertension
- 28.2% were on medication but has raised blood pressure; 55.4% (male 64.2%, female 47.2%) was not on medication for raised blood pressure and also has high blood pressure
- Among those who last 2 weeks were taking medication for raised blood pressure, 30% were taking medication when the blood pressure raises and 3.2% - irregularly, when recalled



STEPS 2016

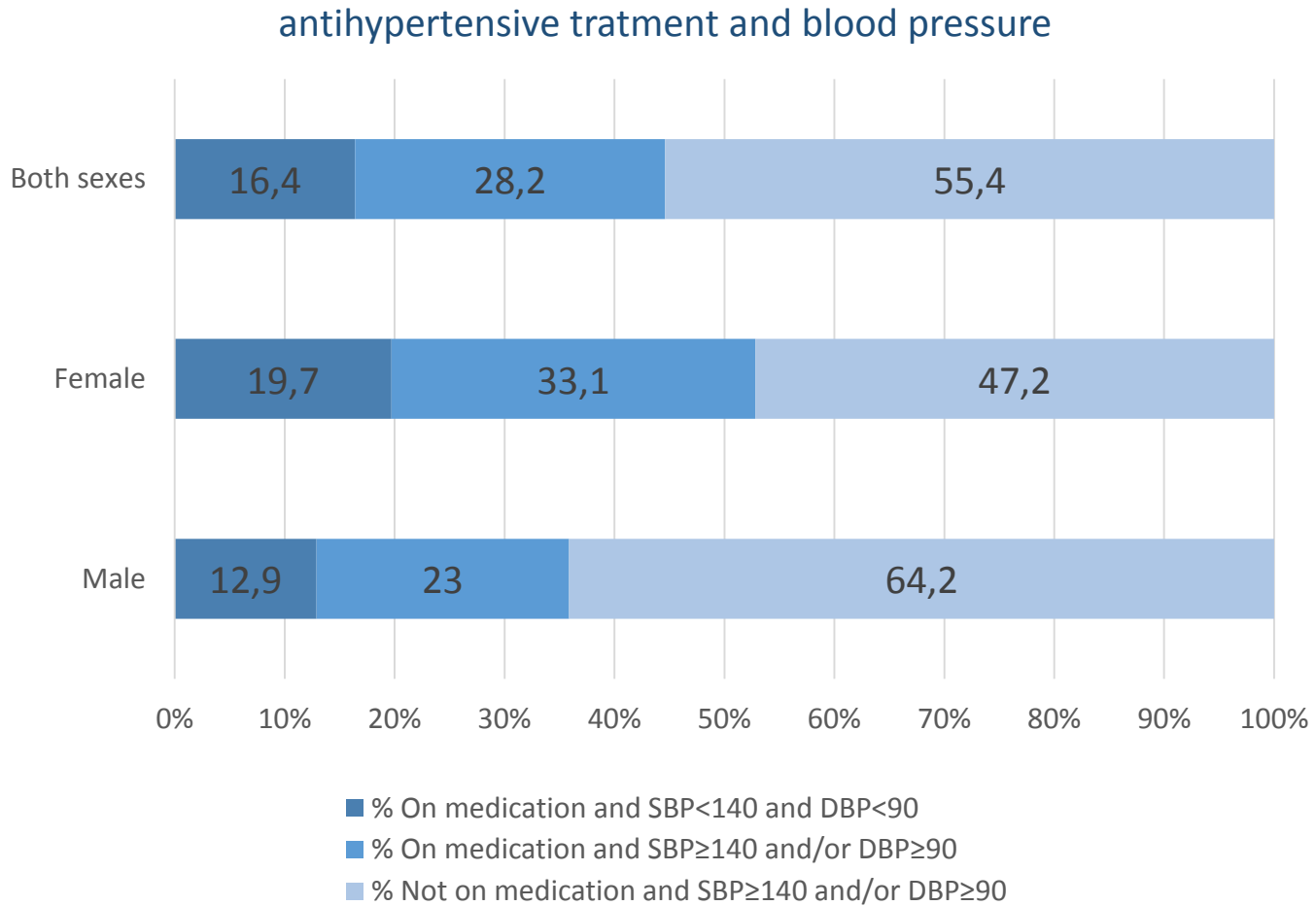
Arterial Hypertension

Blood pressure measurement and diagnosis



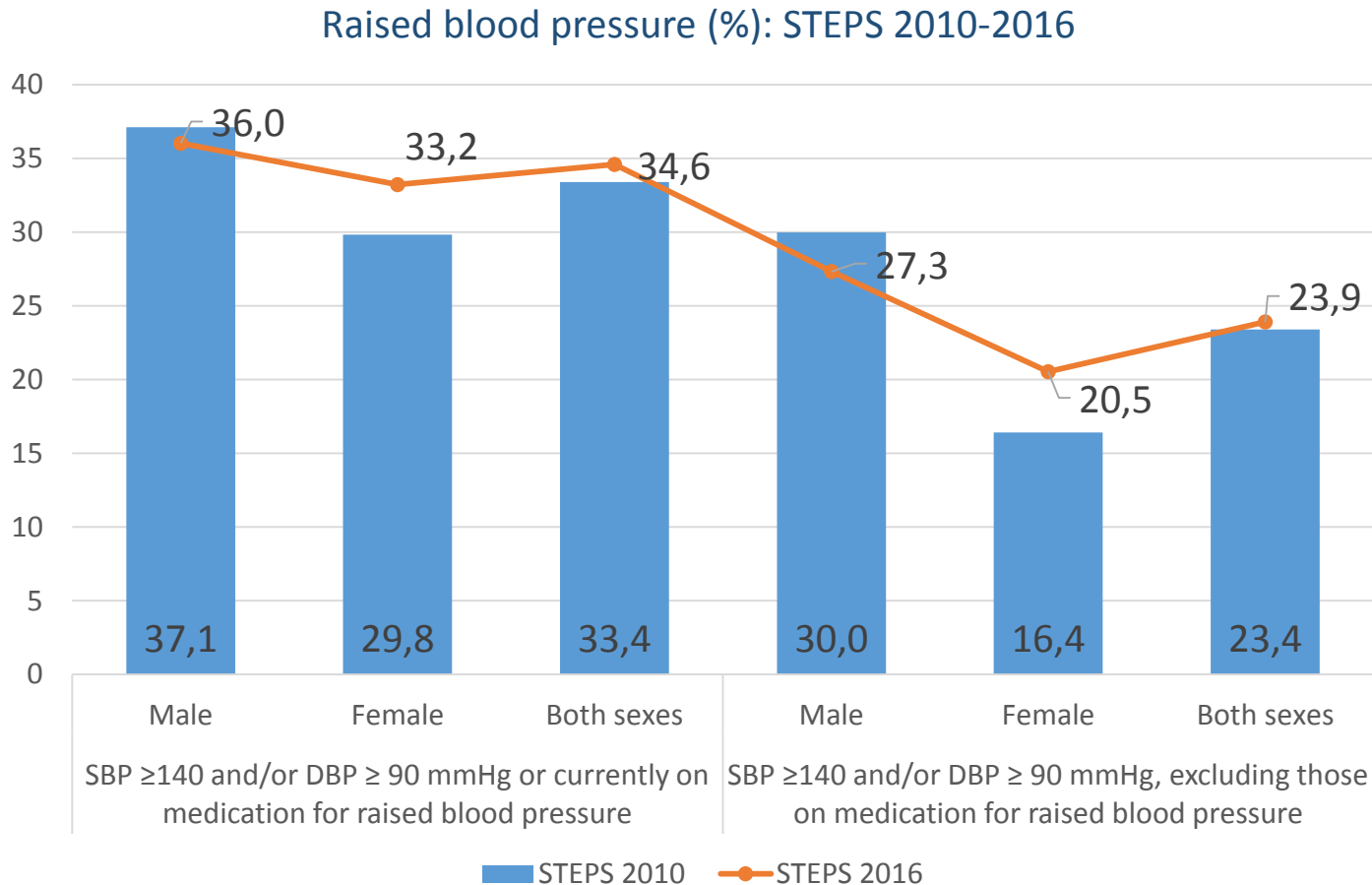
STEPS 2016

Arterial Hypertension



STEPS 2016

Arterial Hypertension



STEPS 2016

Arterial Hypertension

- Mean systolic blood pressure - 129.4 mmHg (male 132.6, female 126.5)
- Mean diastolic blood pressure - 82.2 mmHg (male 83.0, female 81.4)
- Mean heart rate - 79.2 (male 79.3, female 79.1)
- 5% - have anamnesis of atrial fibrillation or heartbeat (arrhythmia); and 11.3% - varicose veins disease
- 5.5% - currently taking anticoagulants
- Mean intake of salt - 8.5 gr. (male 9.7 gr., female 7.4 gr.) per day



STEPS 2016

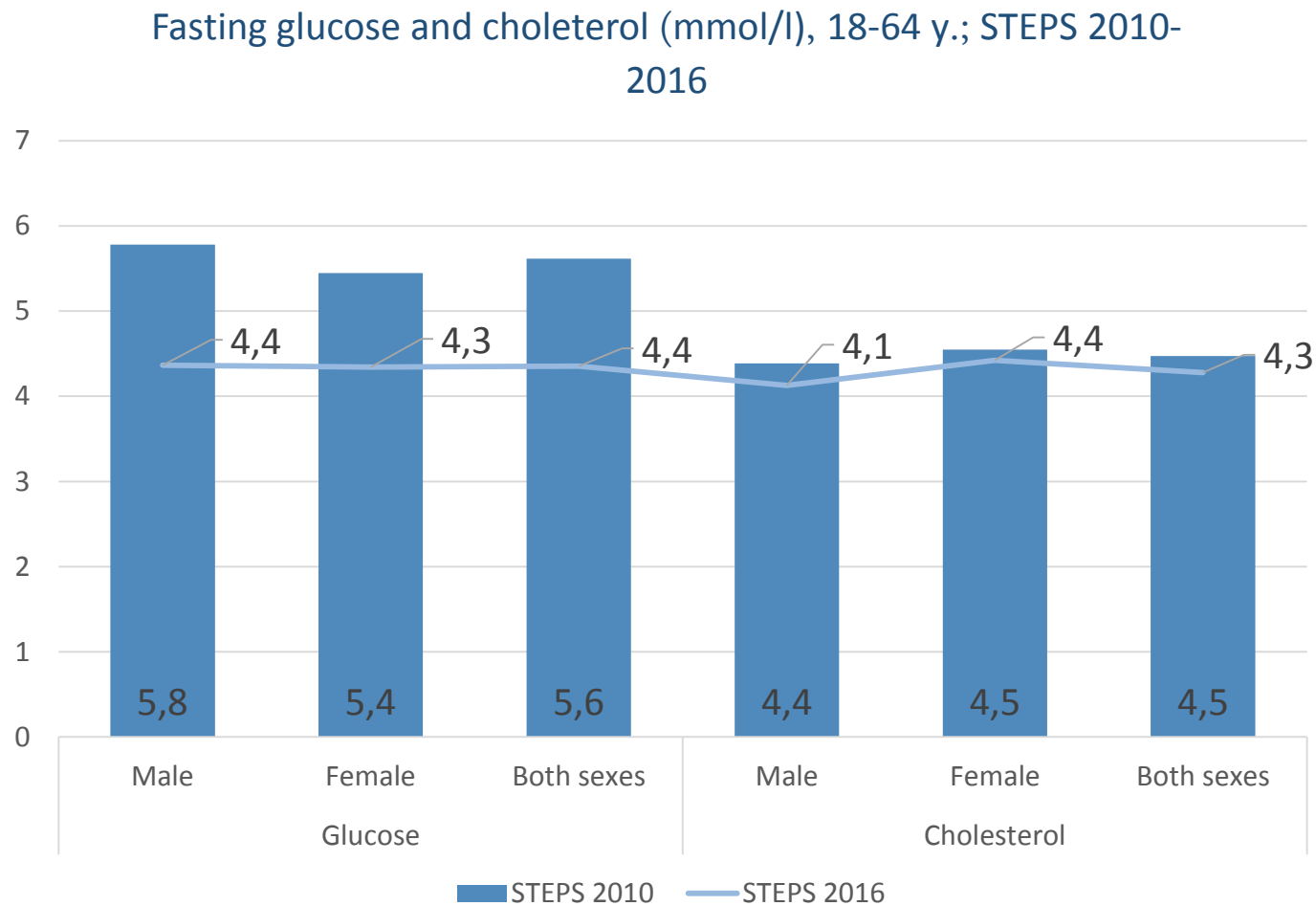
Glucose, Cholesterol

- 62.4% - have never measured blood glucose; 84.2% - cholesterol
- Mean fasting glucose - 4.4 mmol/l; Mean total cholesterol - 4.3 mmol/l; Mean high density lipoprotein (HDL) - 1 mmol/l
- 5.1% of respondents (5.7% female and 4.6 % male) have high blood glucose or are diagnosed with a diabetes
- Almost 60 % - on medication; Among those who take drugs, 21.9% of male and 14.3% of female respondents are insulin users; Persons on anti-diabetic Medication - 3.3%
- 27.7% has total cholesterol level ≥ 5.0 mmol/l or currently on medication for raised cholesterol
- 8.7% has total cholesterol level ≥ 6.2 mmol/l or currently on medication for raised cholesterol
- 76.1% of male - HDL < 1.03 mmol/l
- 76.3% of female - HDL < 1.29 mmol/l



STEPS 2010-2016

Glucose, Cholesterol



STEPS 2016

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; 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

Mental Health/ Suicide

- 1.5% - seriously considered attempting suicide during the past 12 months
- 16% - made a plan about how to attempt suicide during the past 12 months
- 0.9% - have ever attempted suicide

Violence

0.6% - were involved in a violent incident during the past 12 months at least once

33.1% - Violent incidence with weapon (other than a firearm)

relationship with a person who caused the injury – intimate partner in female and stranger in male



STEPS 2016

Injury

- 2.7% - involved in a road traffic accidents during the past 12 months
- Cause of trauma other than road traffic crashes -fall (65.4%).

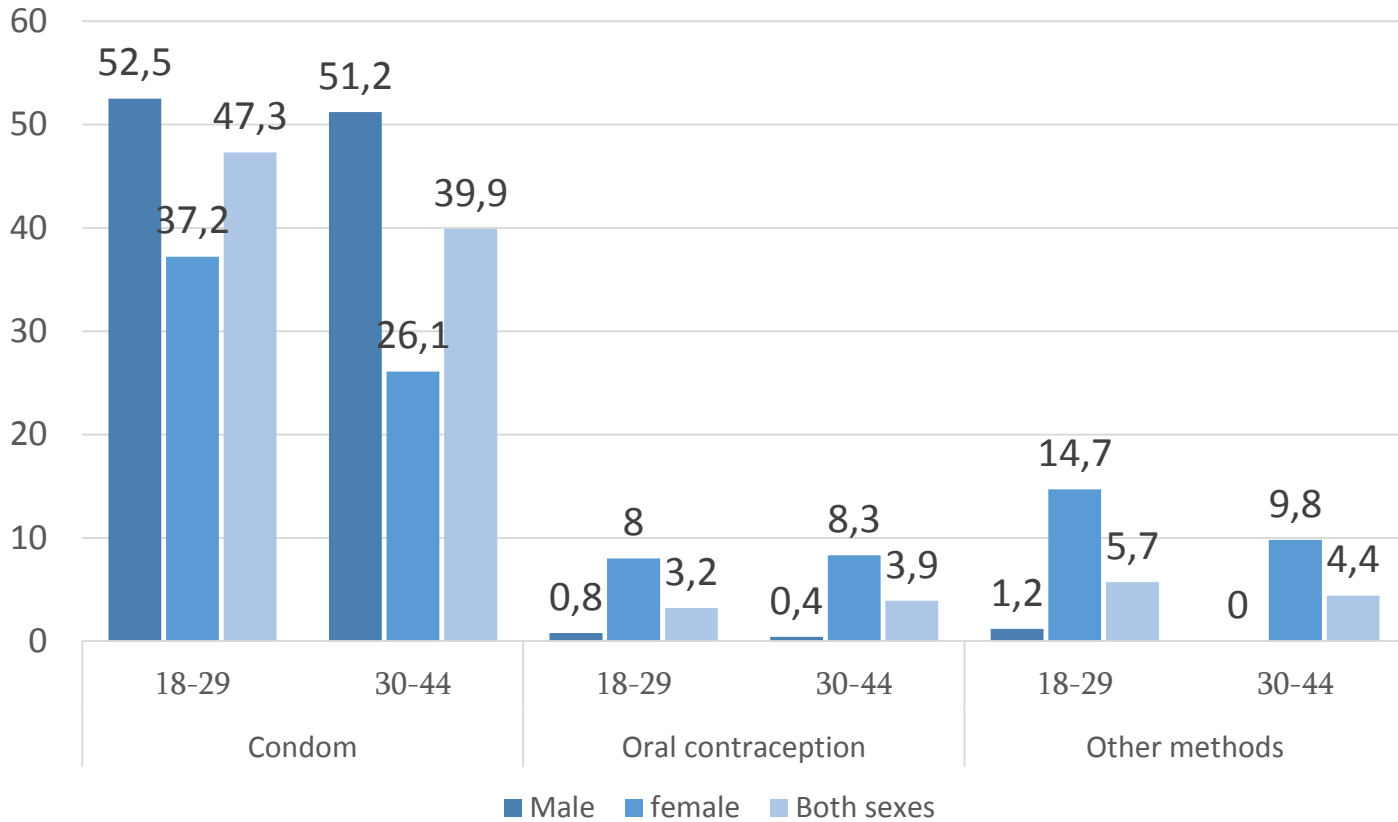
Sexual Health

- 91.1% - have had a sexual intercourse during a lifetime (male 96.7%, female 86.2%)
- Average Age index of first sexual intercourse - 19.8 year (male 17.9, female 21.5); First sexual intercourse before age of 15 - 3.4% (male 6.3%, female 0.9%)
- 25% - the past sexual intercourse during the past 1 week/past 1 moth
- 76.9% - not reporting any use of protection during the past sexual intercourse

STEPS 2016

Sexual Health

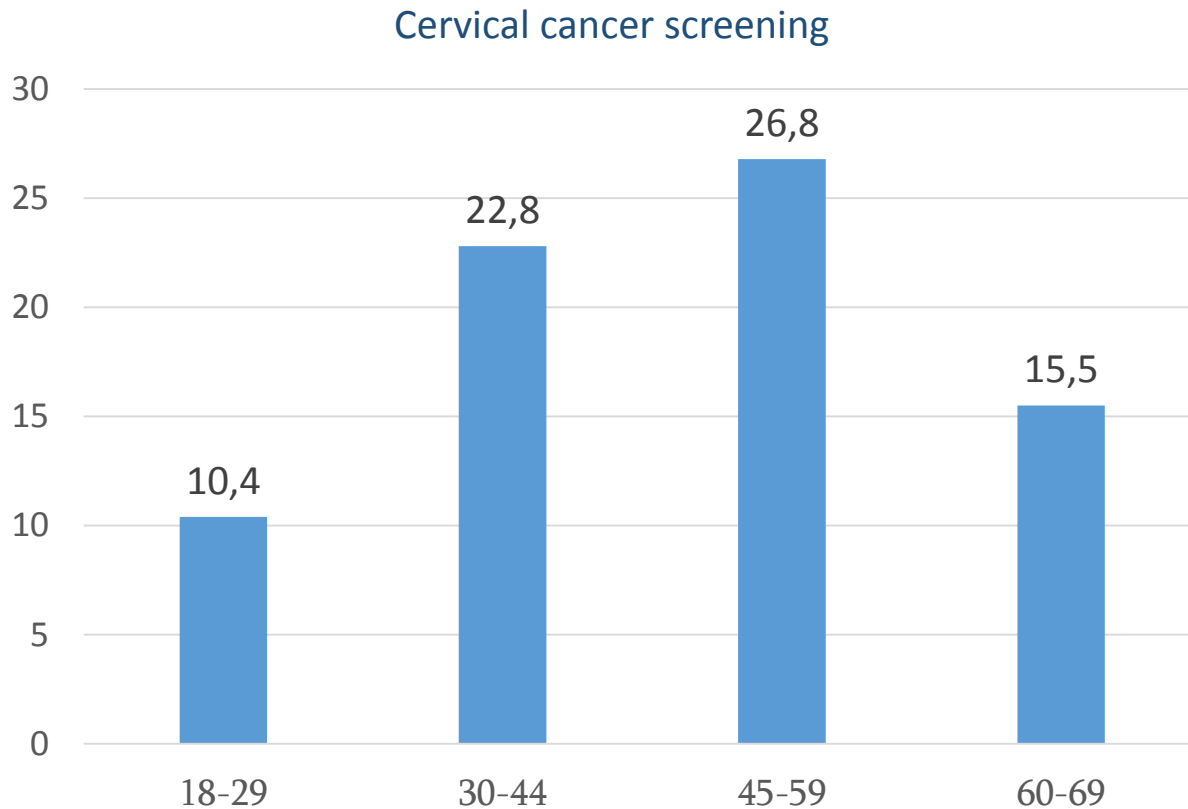
Methods of contraception (%)



STEPS 2016

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%



STEPS 2016

Risk Factors

10-year cardiovascular disease (CVD) risk

- In 28.8% of respondents aged 40-69 years having a 10-year cardiovascular disease (CVD) risk $\geq 30\%$ or existing CVD
- 28% of them receiving drug therapy and counseling to prevent heart attacks and strokes

Combined Risk Factors

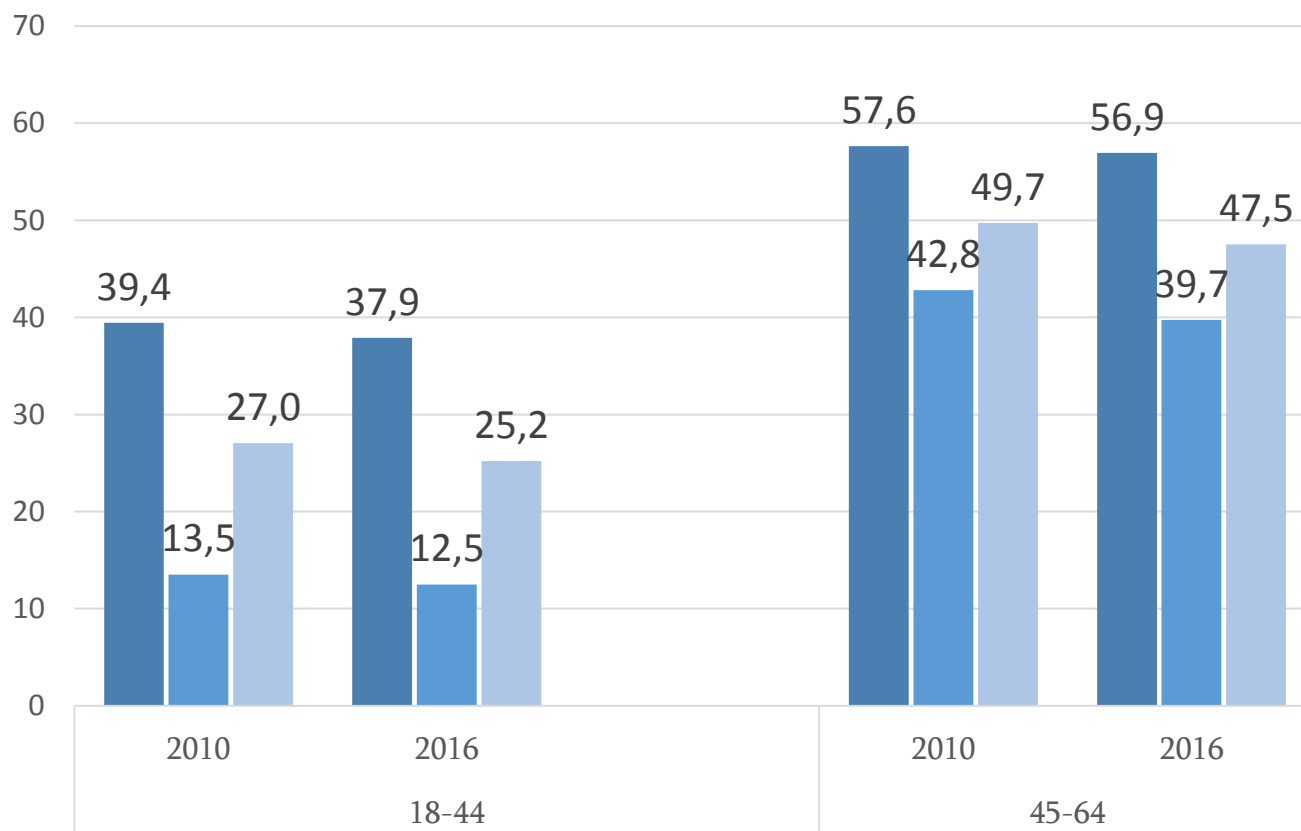
- 92.4% of respondents (male 94.3%, female 90.7%) have one or more risk-factors
- 36.1% of respondents (male 45.4%, female 27.6%) have 3 and more risk-factors



STEPS 2010-2016

Risk Factors

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

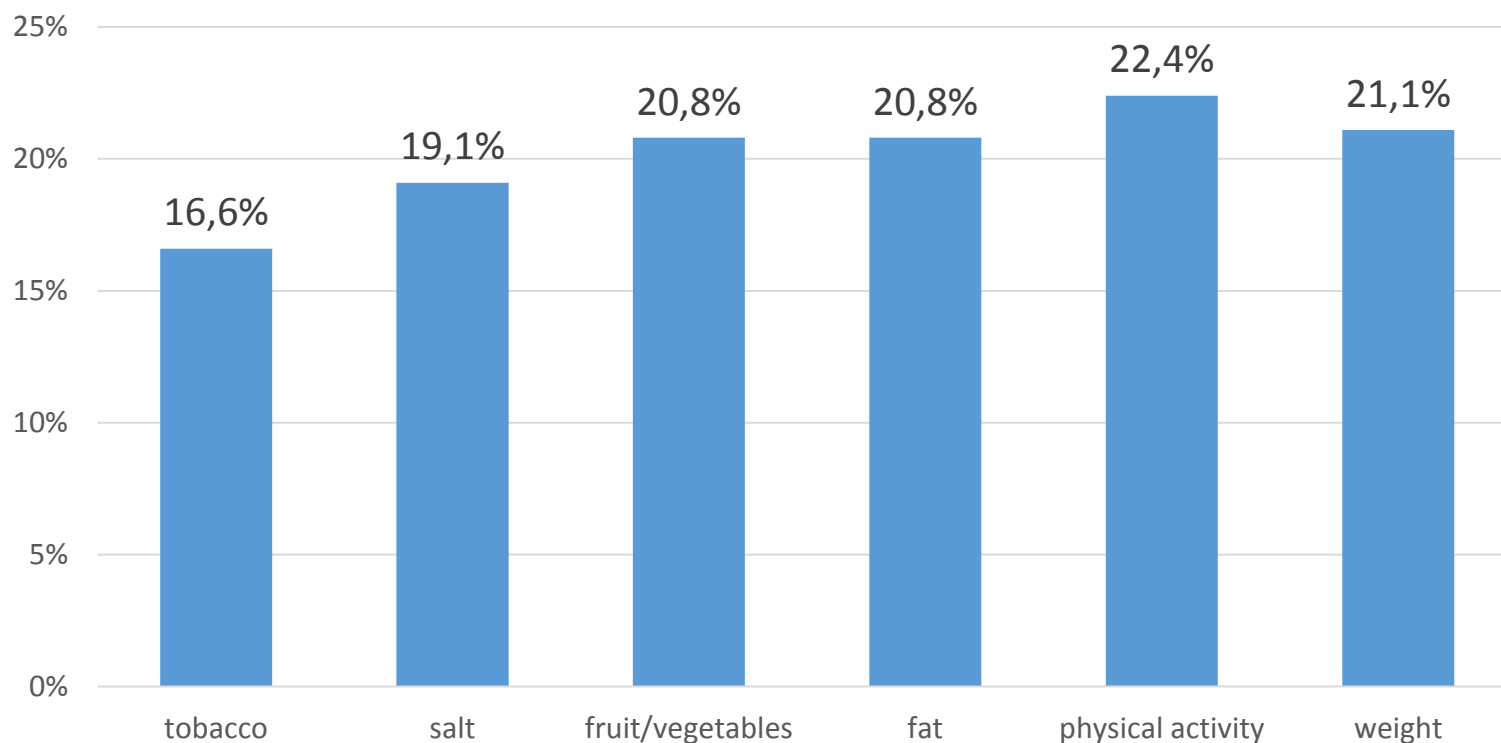


STEPS 2016

Visits to doctor

- 46.3% visited doctor or medical personnel during last 12 months
- The reason of last visit to doctor: specific health problems -75%; preventive health checkup - 18.2%.

Recommendations from health professionals (%)



STEPS 2016

Recommendations

- STEPS survey results show the importance of developing the effective system for NCDs prevention and control
- It is essential to use the survey evidence for awareness rising, health promotion development and reducing NCD risks
- It is important to develop a plan and implement effective interventions directed to reducing the prevalence and incidence of NCDs, considering the “best buy” approaches and solutions proved to be successful in other low-income countries worldwide.



STEPS 2016

Recommendations

- It is reasonable to disseminate survey results to all stakeholders and media sources to increase the awareness of the population regarding NCDs risks and health promotion
- It is desirable to disseminate the Survey results among the Insurance Companies as well as other governmental and non-governmental, national and international health stakeholders in the country to undertake an in-depth analysis, oriented at win-win solutions, in view of increasing capacities/coverage offered by the State Health Insurance Policy with regards to NCDs management
- It is essential to elaborate Information, Education and Communication (IEC) materials to ensure accessibility of health-related information



STEPS 2016

Recommendations

- it is important to strengthen capacities of PHC personnel and to enable them to facilitate awareness raising on NCD prevention and control, on health promotion issues; in order to reducing NCD-related risks. It is very important of ensure accessibility of regular preventive screening check-ups and to essential medications; especially for hypertension.
- It is reasonable to develop and strengthen the mechanism for monitoring and surveillance of health conditions
- It is important to review and change several policy documents



**Let's start a nationwide public movement to reduce health and
social harm related to non-communicable diseases
for Healthy Georgia**

