



SECOND RWANDA NON-COMMUNICABLE DISEASES RISK FACTORS STUDY DISSEMINATION OF FINDINGS

Rwanda, 2021-2022





INTRODUCTION



What is NCDs risk factors STEPS Survey

Step1: Behavioral information: Tobacco Smoking, Alcohol consumption, Physical inactivity and Diet..

Step2: Physical measurements: Height, Weight, waist circumference and blood pressure.

Step 3:Biochemical measurements: Blood sugar, and Cholesterol.

Additional modules: Cervical cancer, Oral health, Injuries and Violence.

When & Where?

November 2021 to January 2022.

400 enumeration areas from 30 districts.

Methodology The survey was a population-based survey of adults aged 18-69 years.

A multi-stage cluster sample design was used to produce representative data for that age range in Rwanda. A total of 5,676 adults participated in the survey.

The overall response rate was 96.3%.

MAJOR KEY FINDINGS



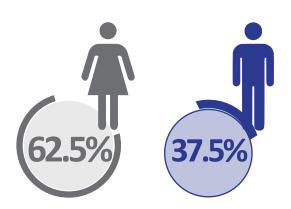


SOCIAL DEMOGRAPHIC INFORMATION



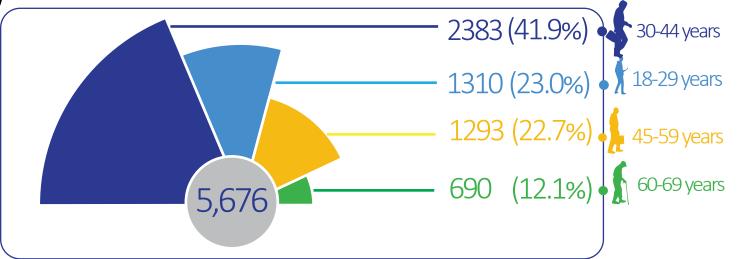
5,676Study Population (18-69 years)

Sex Distribution



Age-Range

Distribution







Behavioral Risk Factors

TOBACCO SMOKING

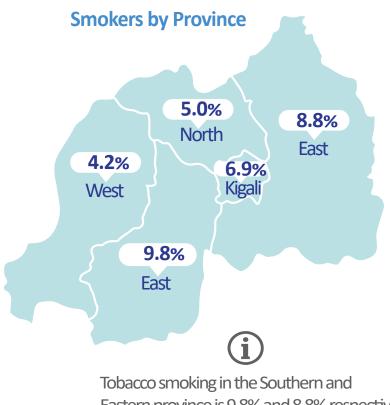


Overall 12.9% 7.1% 2013 2022

5.8% decrease in prevalence of tobacco smoking (from 12.9 % in 2013 to 7.1% in 2022).







Tobacco smoking in the Southern and Eastern province is 9.8% and 8.8% respectively, Which is beyond the national prevalence.

ALCOHOL CONSUMPTION

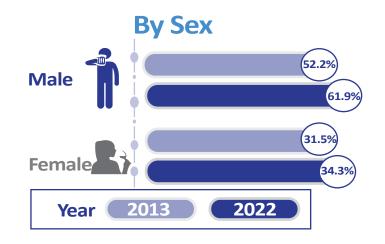


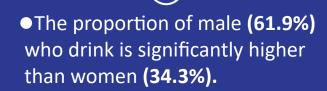
Current Drinkers

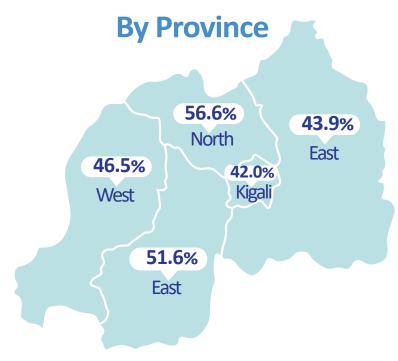




- Nearly half of responded (48.1%) reported having consumed alcohol during the past 30 days of the survey,
- Compared to 2013 results there has been a moderate increase in alcohol drinking







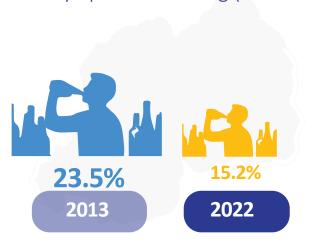
"The nothern and southern province have a highest prevalence of alcohol consumption. While the City of Kigali has the lowest consumption at 42%."

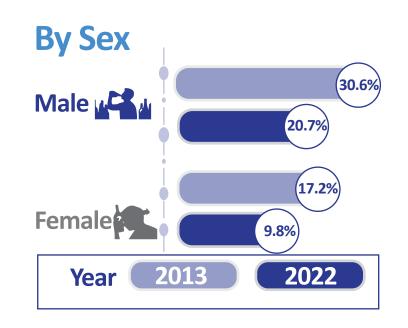
HEAVY ALCOHOL DRINKING

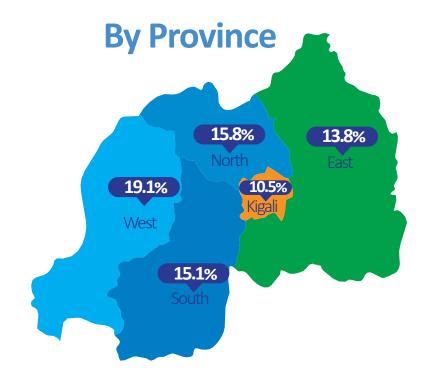


National Level

Heavy episodic drinking (Past 30 days)



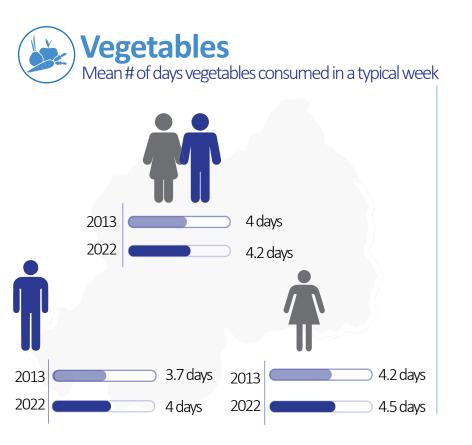




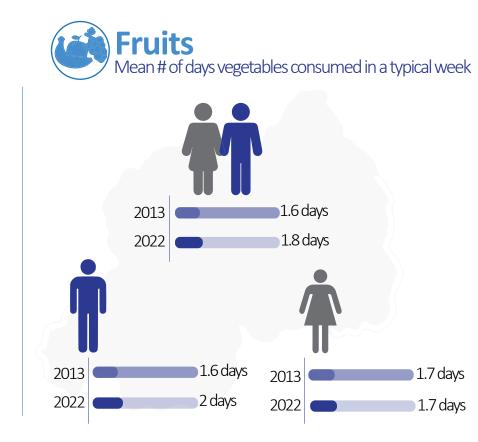
A Significant 8% decrease in heavy drinking compared to 2013 STEPS findings.

DIET_FRUITS AND VEGETABLES CONSUMPTION/ # DAYS



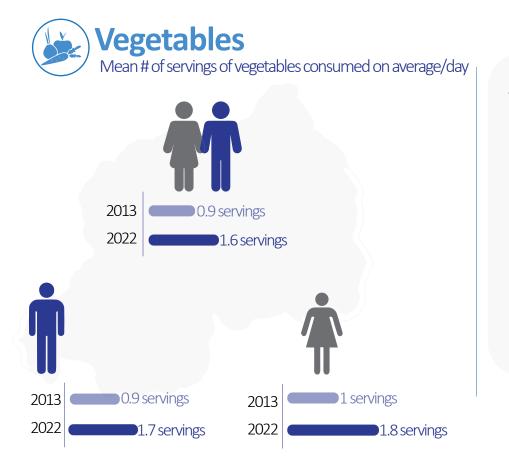






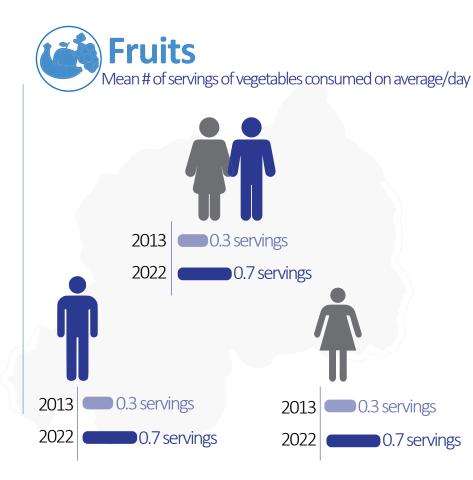
DIET_FRUITS AND VEGETABLES CONSUMPTION/ # SERVINGS







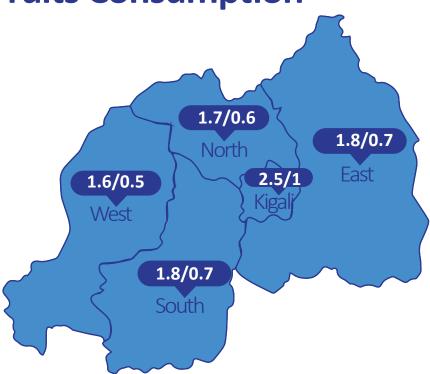
- Daily, Rwandans are consuming 1.6 servings of vegetables and
 0.7 servings of fruits, while WHO recommends
 5 servings per day
- A moderate improvement since 2013



DIET_FRUITS AND VEGETABLES CONSUMPTION/ BY PROVINCE



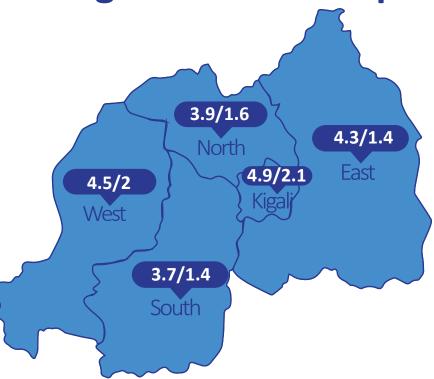




Mean # of days Fruits consumed per week/Mean # of Servings per day

 The City of Kigali consume more fruits and vegetables that other provinces but none of the provinces consume the required quantity of
 5 servings per day

Vegetables Consumption



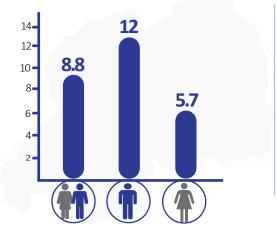
Mean # of days vegetables are consumed per week/Mean # of servings per day

DIET_SALT CONSUMPTION

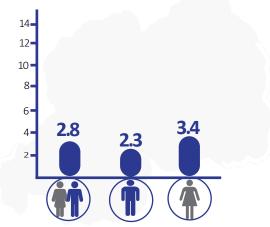




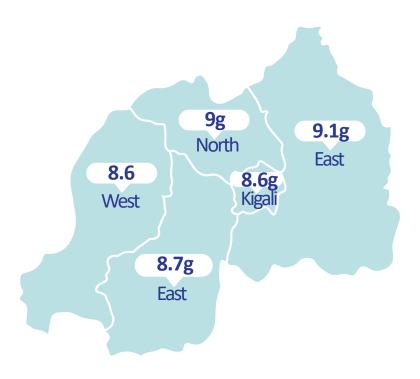
% who always add Salt







The average quantity of salt consumed per day is **8.8 grams**, this is higher than the **<5 grams** recommended by WHO



Mean Salt intake per day (In Grams)

"All provinces consume a higher quantity of salt and there is no significant difference among provinces!."

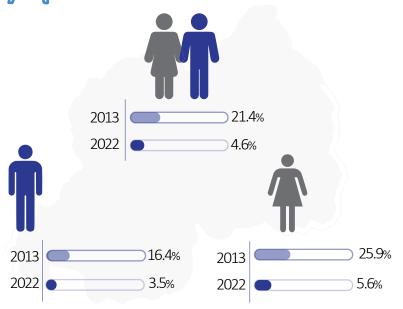
PHYSICAL ACTIVITY





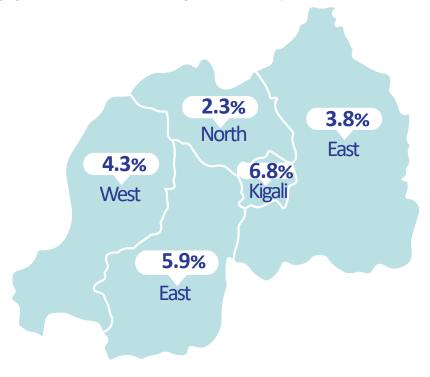
% with insufficient physical activity

(defined as < 150 minutes of moderate-intensity activity per week, or equivalent)





• There is a significant improvement over time, the prevalence of insufficient physical activity has reduced almost **5 times**



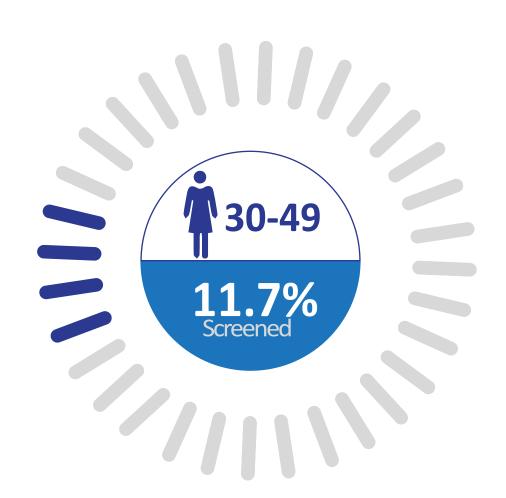
"The City of Kigali has a higher prevalence of physical inactivity!"



Other risk factors

CERVICAL CANCER SCREENING





Only 11.7% of 1.6 million women between 30-49 years old (Eligible for Cervical Cancer screening) have ever had a screening test for cervical cancer.

ORAL HEALTH

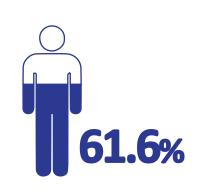




Percentage of respondents who have never received dental care





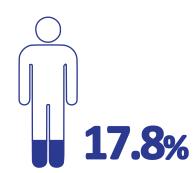




Percentage of respondents cleaning their teeth at least twice a day







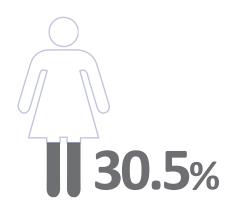
Only 43% responded to
have ever received dental
care, while only 19% of
Rwandans clean their teeth
two times a day as
recommended.

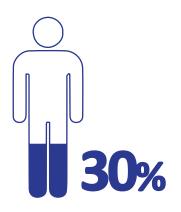
INJURY AND VIOLENCE/ HELMET USE

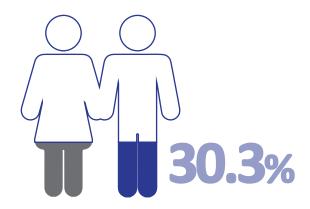




Percentage of drivers or passengers of a motorcycle or motor-scooter not always using a helmet







Compared with results from 2013, there have been significant improvements as the non-use of the helmet has reduced by 44% (from 74.0% in 2013)





Physical Measurements

BODY MASS INDEX

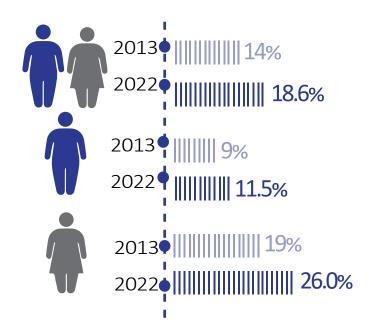


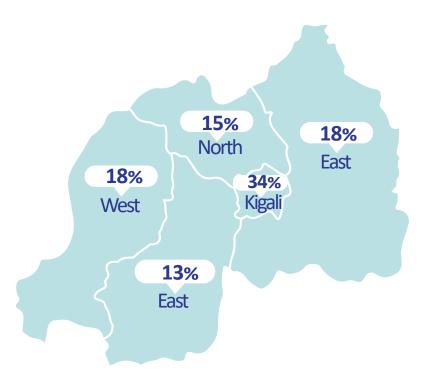


Since 2013, there has been an increase in the prevalence of overweight from 14.3% to 18.6% and the increase was more observed in females



Percentage of overweight (BMI ≥25 kg/m²)



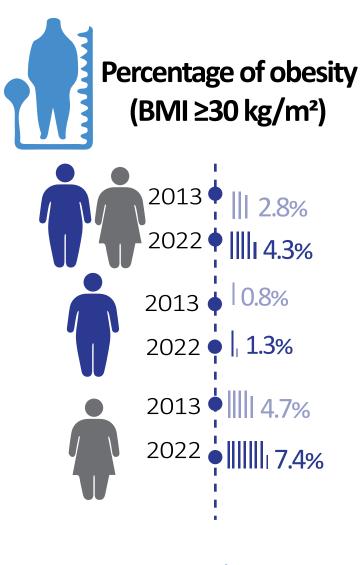


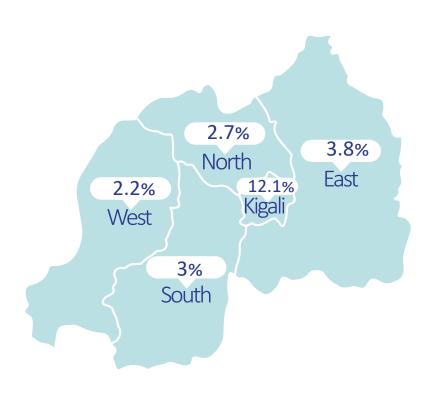
"The City of Kigali has the highest prevalence of overweight, just double of other provinces."

BODY MASS INDEX









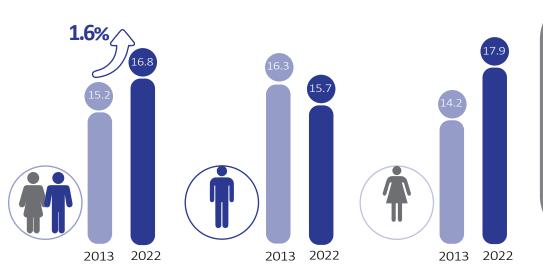
"The City of Kigali has the highest prevalence of obesity, four times higher that other provinces."

HIGH BLOOD PRESSURE

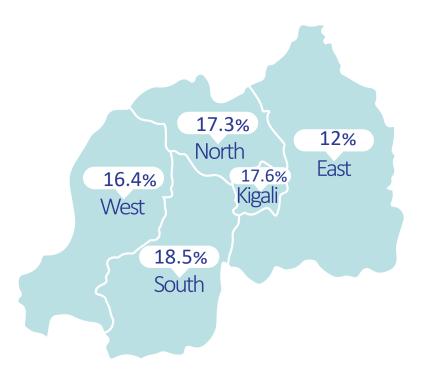




Percentage with raised BP (SBP \geq 140 and/or DBP \geq 90 mmHg or currently on medication for raised BP)



The prevalence of high blood pressure significantly increases with age, to reach 43.2% in 60-69 age group, where half of females in that age group are hypertensive

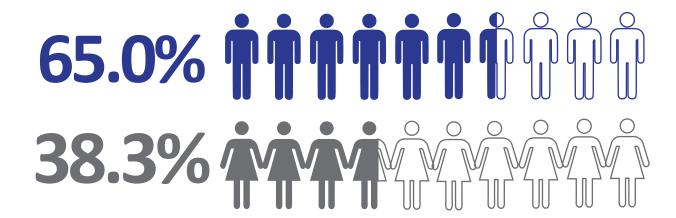


"The Eastern province has the lowest prevalence of hypertension while the southern province has the highest prevalence."

BLOOD PRESSURE MEASUREMENT COVERAGE







Half of participants have never their blood pressure measured, Although this figure is still high, it shows a significant improvement since the last 2012-13 STEPS survey, which indicated that nearly 80% of participants had never had their blood pressure measured.

38% of females have never have their blood pressure measured and the percentage increases to 65% in males.

COMBINED NCDs RISK FACTORS





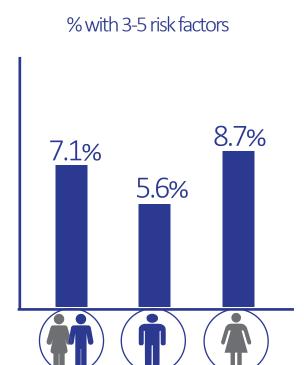


Overweight or obese (BMI ≥ 25 kg/m2)













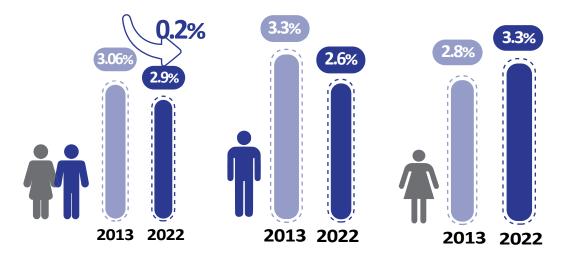
Biochemical Measurements

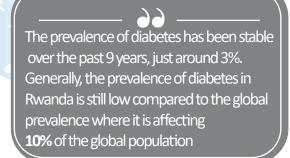
PREVALENCE OF DIABETES

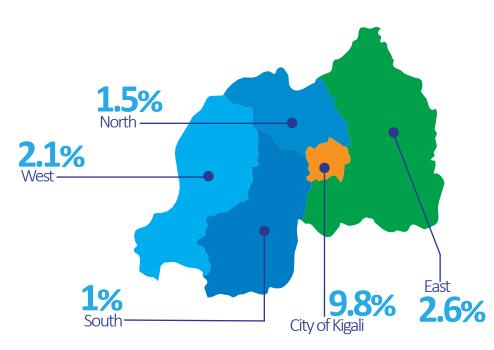




Percentage with raised fasting blood glucose or currently on medication for raised blood glucose (plasma venous value ≥ 126 mg/dl)





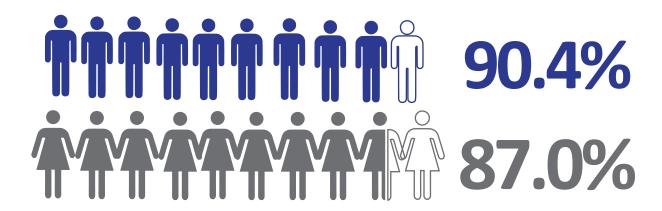


"The City of Kigali has the highest prevalence of Diabetes, more than 4 times higher than the national prevalence."

BLOOD SUGAR MEASUREMENT COVERAGE









88.5% of respondents had never undergone blood sugar measurement with significant differences between both sexes (90.4% of men vs 87.0% of women).

RECOMMENDATIONS



1

Strengthen NCDs Community awareness using different communications channels and strategies.

2

Establish community NCDs early detection programs using community health workers.

3

Strengthen the health care system for NCDs early detection and management.

4

Establish and strengthen specialized NCDs management centers: Infrastructure, Equipment and Human Resource

5

Strengthen NCDs data systems and research.

www.rbc.gov.rw

6

Promote a multisectoral collaboration in NCDs Response.

8

Integration of NCDs risk factors survey in other similar national surveys like DHS

10

Establish and strengthen the implementation of regulations tackling major NCDs risk factors: Alcohol, Tobacco, Sugar added drinks,...

Increase domestic and external funding for NCDs Response in the Country

Explore use of technology in conducting NCDs risk factors survey: Mobile phone surveys

www.rbc.gov.rw

ACKNOWLEDGEMENT















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