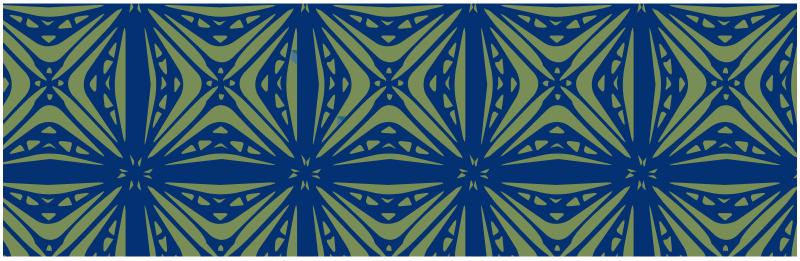


Nauru NCD Risk Factors STEPS REPORT 2015-2016

in collaboration with World Health Organization (WHO)









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LIST OF ABBREVIATIONS

BMI Body Mass Index BP Blood Pressure

CBA Childbearing Age [Women]

CI Confidence Interval

CVD Cardiovascular Diseases
DBP Diastolic Blood Pressure

DM Diabetes Mellitus

ETS Environmental Tobacco Smoke

GDP Gross Domestic Product
HDL High-density Lipoprotein

HTN Hypertension

MET Metabolic Equivalent

mg/dl Milligrams per decilitre (unit of blood chemistry values)

mmHg Millimetres of mercury (unit of blood pressure measurement)

mmol/l Millimoles per litre (unit for blood chemistry value)

MoH Ministry of Health

NCD Noncommunicable diseases

SBP Systolic Blood Pressure
WHO World Health Organization

Foreword by Ministry of Health



Hon. Charmaine Scotty, MP
Minister of Health and Medical Services
Republic of Nauru

As Minister of Health and Medical Services I welcome this report of the Nauru 2016 STEPS survey. The findings of the survey present a view of the non-communicable diseases risk factors and burden in the nation. This is the first step towards positive and concrete action in our battle against non-communicable diseases.

An intertwined relationship exists between behaviour; the (social, economic and physical) environment in which we live and our health. Risks for non-communicable diseases exists across age and gender boundaries as highlighted in the report. I am troubled when I see the report highlight that nearly half of our population use tobacco; that greater than a quarter of our population use alcohol in harmful excess; that almost 40% of our population lack adequate physical activity and that over 70% of peoples living on Nauru face the challenge of obesity. Our nation continues to face the burden of non-communicable diseases.

Non-communicable diseases form a major public health concern with significant social and economic implications in terms of health care costs, lost productivity and premature death. Diabetes, obesity, respiratory diseases, cardiovascular diseases, and injuries continue to dominate the disease landscape. I appeal to all policymakers, stakeholders, public health professionals, and all concerned with the control of non-communicable diseases in Nauru to use this report as reference source for all action against non-communicable diseases. The very essential information provided in this report must inform policy targeted at halting and reversing the burden of non-communicable diseases.

The Government of Nauru is grateful to the World Health Organization for technical assistance for the completion of the survey and report. Wide stakeholder engagement, in-depth literature review and dedication from the technical working group that undertook the planning and implementation phases of the survey is very much appreciated. The hard work and determination of the STEPS field teams and individuals allowed this vital activity to run smoothly to completion. We owe each of them our sincere appreciation.

While the survey results demonstrate the great challenge that non-communicable diseases present to our nation it at the same time points the path for our nation's response. I call on all state institutions, development partners, communities and individuals to join together in the battle against non-communicable diseases and achieve our vision of a quality and healthy life for all peoples in our nation.

Hon. Charmaine Scotty, MP
Minister of Health and Medical Service

Republic of Nauru

Foreword by the World Health Organization



Dr. Corinne Capuano
Director, Pacific Technical Support
Representative, South Pacific, World Health Organization

The World Health Organization (WHO) is pleased to collaborate with the Nauru Ministry of Health in undertaking and reporting on the country's second Noncommunicable Diseases STEPwise approach to surveillance (NCD STEPS) survey.

People of all age groups, regions and countries are affected by NCDs, and the Pacific Islands are no exception. NCDs are the leading causes of premature mortality, driven by the forces of rapid unplanned urbanization, globalization and population ageing. To combat the NCD crisis, the World Health Assembly adopted a comprehensive global monitoring framework with nine targets and 25 indicators in 2013. WHO has also developed a global NCD action plan, which provides a road map with policy options to address the four modifiable risk factors, to be implemented between 2013 and 2020.

Six of the nine global targets are assessed primarily through population-based risk factor surveys, including WHO's NCD STEPS survey. As such, Nauru's second NCD STEPS survey is important for tracking progress towards these targets. The findings will enable the government to monitor and evaluate its programmes to prevent and control NCDs; enable prioritization; and guide strategic planning to help the country achieve the 25% reduction of premature mortality from NCDs by 2025.

This report summarizes the findings of Nauru's second STEPS survey, undertaken in 2015. Some of the key findings of this survey are:

- 46.3% of the population were current smokers, with younger men aged 18-29 more likely to be smokers than those aged 45-69;
- 27.7% of Nauruans had drunk alcohol in the last 30 days and 17.3% drank in the past 12 months, with men being more likely to be drinkers than women;
- 18.1% of Nauruans consumed kava in the past 12 months;
- 33.4% of Kava drinkers were likely to drink alcohol and 69.1% would smoke tobacco during or after drinking kava;
- 95.3% did not consume the recommended 5 minimum daily servings of fruits and vegetables;
- 53.8% of the population always or often added salt before eating or when eating, with younger Nauruans aged 18-29 being more likely to do so than those aged 30-44 and 45-69;
- 65.4% of the population always or often added salt when cooking or preparing food at home;
- On average, Nauruans consumed 4.1 servings of sugary drinks per day, plus 5.4 teaspoons of sugar added to other drinks per day;
- 39.8% of the population did not meet the WHO global recommendations on physical activity for health, women being more likely than men;
- 23.4% of the population had a mild mental disorder, 12.8% had a moderate mental disorder and 5.3% had a severe mental disorder;

- 70.2% of the population were obese, 19.8% were overweight and 0.1% were underweight, with women aged 30-44 more likely to be classified as obese than those aged 18-29, and men aged 18-29 more likely to be classified as obese than those aged 30-44;
- 25.3% had raised blood pressure of SBP ≥ 140 mmHg and/or DBP ≥ 90 mmHg or were currently on medication, particularly older adults;
- 9.8% had raised blood pressure of SBP \geq 160 and/or DBP \geq 100 mmHg or were currently on medication, particularly older adults;
- 17.1% of the population were categorized as having impaired fasting glycaemia;
- 19.6% of the population had total cholesterol of \geq 5.0 mmol/l or \geq 190 mg/dl or were currently on medication for raised cholesterol, particularly those aged 45-69 than those aged 18-29;
- 7.9% had total cholesterol \geq 6.2 mmol/l or \geq 240 mg/dl or were currently on medication for raised cholesterol; and
- 66.6% had 3-5 risk factors, particularly older adults.

In the 10 years between the first and second STEPS, there have been some positive changes such as reduction in smoking prevalence and an increase in the number of days and servings of fruits consumed. However, there are also some areas of concern such as increase in obesity prevalence and increase in proportion of adults with raised total cholesterol.

As the burden of NCDs will continue to grow and strain existing health resources and systems, WHO recommends that Nauru conducts regular surveillance of NCDs, create healthy public policies and environments, and scale up efforts to promote healthy lifestyles.

Executive Summary

Nauru conducted its first NCD STEPS survey in 2004 and the report was published in 2007. The first survey provided baseline assessment of the NCD risk factors and showed high levels of risk-taking behaviour and NCDs, and has contributed to the planning of interventions and NCD strategy. Planning for this second survey began in 2015, and data was collected from September, 2015 to April 2016. The Ministry of Health led the implementation of the survey with technical support from the World Health Organization.

The key objectives of the NCD STEPS survey were:

- To document the prevalence and magnitude of key NCDs and their modifiable risk factors among adults aged 18-69.
- To compare NCDs and their risk factors across three age groups and between men and women.
- To monitor progress towards achieving the 9 voluntary global targets by 2025.

A total of 1,386 individuals, 95.2% Nauruans and 4.8% of other ethnicity participated in the survey. The survey respondents included 53.0% women (n = 735) and 47.0% men (n = 652). Men and women had similar mean number of years of education (10.4 years and 10.7 years respectively), which suggests equal access to education in the participants in the sample. More than half (59.8%) have completed secondary school level of education, 31.4% have at least primary school education, 5.6% have college degrees, 0.5% have post-graduate degrees, and 2.7% have no formal schooling or less than primary school education. A quarter (24.8%) are in unpaid work or unemployed, whilst 38.5% are non-government employees, 34.0% are government employees and 2.7% are self-employed.

Nauru has three key documents that guide health sector strategies: (1) Noncommunicable Disease (NCD) Strategic Action Plan 2015-2020, (2) National Sustainable Development Strategy (NSDS) 2005-2025, and (3) Ministry of Health and Medical Service Strategic Plan 2010-2015. Nauru's NCD Strategic Action Plan seeks to achieve its health goals through strengthening health systems, primary health care, curative health and support services to improve nutrition and food security, increase physical activity, decrease tobacco use and harmful use of alcohol. The measures outlined include establishing a multisectoral coordination committee, developing policies, legislation and regulations, using taxes, strengthening enforcement of legislation, implementing settings-based programmes and strategic health communication activities, allocating areas for physical activity and recreation, and organizing community exercise programmes. There were also plans to strengthen the workforce, the health care service delivery infrastructure, and the monitoring and surveillance of NCDs.

Behavioural risk factors

Nearly half of the Nauruan population (46.3%) were current smokers – 47.4% of men and 45.3% of women – with no significant differences between men and women and between the three age groups. Among men, those aged 18-29 (53.9%) were more likely to be smokers than those aged 45-69 (35.1%). On average, Nauruans began smoking at the age of 16.4 years. More than half (59.6%) of current daily smokers were heavy users, smoking 15 or more cigarettes a day. A significantly higher proportion of current daily smokers aged 45-69 smoked more than 25 cigarettes a day (26.5%) compared to those aged 18-29 (11.6%) and 30-44 years (15.2%); and a higher proportion of male (20.4%) than female current daily smokers (11.5%) smoked more than 25 cigarettes a day. On average, current daily smokers smoked 16.3 manufactured cigarettes and 0.9 hand-rolled cigarettes daily. Nauruans aged 18-29 who were currently daily smokers smoked significantly fewer manufactured cigarettes (14.7 cigarettes) than those aged 45-69 (19.3 cigarettes); and there was no statistically significant differences between the three age groups in terms of the other tobacco products they used. More than half of the population (54.7%) have been exposed to second-hand smoke in homes and 27.4% in workplaces. In addition, currently, 1.3% of the population use e-cigarettes.

More than a quarter of Nauruans (27.7%) were current drinkers whilst most were non-current drinkers – 31.1%

were lifetime abstainers, 17.3% drank in the past 12 months though not currently, and 23.9% did not drink in the past 12 months. Younger Nauruans aged 18-29 (30.4%) and 30-44 years (32.4%) were more likely to be current drinkers than those aged 45-69 (16.6%). Significantly more men than women were drinkers – among men, 39.8% were current drinkers and 21.3% drank in the past 12 months; and among women, 16.4% were current drinkers and 13.6% drank in the past 12 months. Among current drinkers, the mean number of drinking occasions in the past 30 days was 5.5; the mean number of standard drinks per occasion was 13.7; and 11.6% drank at the high-end level, 8.1% at the intermediate level and 80.3% at the lower-end level. With regards to binge drinking, 24.1% did so at least once in the past 30 days – men were much more likely to binge drink than women (36.1% compared to 12.8%); and younger Nauruans aged 18-29 (26.3%) and 30-44 years (29.0%) were more likely to have binge drink compared to those aged 45-69 (13.4%).

Less than a fifth (18.1%) of Nauruans consumed kava in the past 12 months with no statistically significant differences between men and women and the three age groups. In the last 30 days, Nauruans consumed kava on 7.7 days and spent about an hour on average drinking kava in a session. One third of kava drinkers (33.4%) were likely to drink alcohol during or after drinking kava and 69.1% would smoke tobacco.

The majority (95.3%) of Nauruans consumed less than the recommended five servings of fruit and/or vegetables per day – 61.3% did not consume any fruit and/or vegetables; 27.2% consumed 1-2 servings on average per day; 6.7% consumed 3-4 servings; and 4.7% consumed 5 or more servings on average per day. The mean number of days fruit was consumed in a typical week was 1.8 days and 2.5 days for vegetables; and the mean number of servings of fruit and/or vegetables consumed on average per day was 1.2.

Slightly more than half (53.8%) of the population always or often added salt before eating or when eating, and 65.4% did so when cooking or preparing food at home. Younger Nauruans aged 18-29 were more likely to add salt before or when eating (60.4%) compared to those aged 30-44 years (49.9%) and 45-69 (47.5%); and younger men aged 18-29 were also more likely to do so (60.9%) than older men aged 45-69 (40.0%). In terms of consumption of processed food high in salt, 33.5% of the population always or often consumed processed food high in salt with no significant differences between men and women and between the three age groups.

Sugary drinks were consumed on an average 4.1 servings of sugary drinks per day; and on average 5.4 teaspoons of sugar added on to drinks per day. There were no significant differences between men and women and between the three age groups.

One in 10 Nauruans had been involved in a road traffic crash in the past 12 months. A significantly higher proportion of men than women had been involved in a road traffic crash in the past year (15.4% of men and 6.5% of women); and Nauruans aged 18-29 were more likely to have been involved (16.5%) than those aged 30-44 years (8.1%) and 45-69 (4.4%). A large proportion of Nauruans have driven a motorized vehicle after having alcoholic drinks (81.8%) – a significantly higher proportion of women than men have done so (90.7% of women and 72.3% of men); and a significantly higher proportion of Nauruans aged 45-69 have do so (91.1%) compared to those aged 18-29 (77.9%) and 30-44 years (80.0%).

About a quarter of Nauruans (26.9%) were found to not know where to get condoms with no statistically significant differences between men and women and between the three age groups. Among women, those aged 45-69 were more likely to not know (32.2%) than those aged 30-44 years (19.4%).

Overall, 39.8% of the population did not meet the WHO recommendations on physical activity for health – significantly more women (49.8%) than men (29.0%) did not meet the recommendations; and significantly higher proportion of Nauruans aged 45-69 (51.5%) did not meet the recommendations compared to those aged 30-44 years (35.4%). Among men, the proportion who did not meet the recommendations increased with age; whilst among women, a higher proportion of those aged 18-29 did not meet the recommendations compared to those aged 30-44 years. More Nauruans were engaged in low levels of physical activity (44.7%) compared to 36.9% in high levels of physical activity and 18.4% in moderate levels. Significantly more women (54.3%) than men (34.3%) were engaged in low levels of physical activity; and more men (48.9%) than women (25.9%) in high levels of physical activity. A lower proportion of Nauruans aged 45-69 engaged in high levels of physical activity (23.4%) than those aged 18-29 (43.6%) and 30-44 years (38.2%); and a higher proportion of Nauruans aged 30-44 years (21.9%) and 45-69 (21.8%) engaged in moderate levels of physical activity than those aged 18-29 (13.8%).

The mean minutes of total physical activity Nauruans engaged in on average per day was 147.9 minutes – men significantly more than women (194.8 minutes compared to 104.5 minutes); and Nauruans aged 45-69 had fewer physical activity minutes (95.8 minutes) than those aged 18-29 (160.8 minutes) and 30-44 years (169.4 minutes). Work-related physical activity contributed to 49.2% of total physical activity, transport to 26.5% and leisure to 24.3% overall; though there were statistically significant differences between men and women and between the three age groups. The mean number of minutes Nauruans spent in sedentary activities was 340.9, with no significant differences between men and women as well as between the three age groups. The most common barrier to being physically active was the lack of sidewalks (37.8%), along with 31.7% who indicated having no time, 24.9% who cited other issues, 3.2% who were not interested and 2.5% who said dogs were a barrier. A significantly higher proportion of women than men stated having no time as the main barrier to being physically active (38.1% of women and 24.8% of men).

Historical risk factors

The survey found that 33.4% of the population had never had their blood pressure measured, 45.4% had been measured but not diagnosed, 8.0% had been diagnosed but not within the past 12 months, and 13.2% were diagnosed within the past 12 months.

One third (35.0%) of the population had never had their blood sugar measured, 49.2% were measured but not diagnosed, 7.1% were diagnosed but not within the past 12 months and 8.7% were diagnosed within the past 12 months.

Overall, 78.7% of the population had never had their cholesterol measured, 13.1% had been measured but not diagnosed, 3.8% had been diagnosed but not within the past 12 months and 4.5% were diagnosed within the past 12 months.

In terms of receiving lifestyle advice from a doctor or health worker: (a) 28.8% of the population had been advised to quit using tobacco or not start; (b) 37.4% had been advised to reduce salt in the diet; (c) 47.1% had been advised to eat at least five servings of fruit and/or vegetables each day; (d) 42.7% had been advised to reduce fat in the diet; (e) 48.3% had been advised to do more physical activity; and (f) 47.4% had been advised to maintain a healthy body weight or to lose weight.

Among women aged 18-69, it was found that 53.0% had ever been tested for cervical cancer. Among women who had ever undergone a screening test for cervical cancer, 49.5% did so within the last year, 34.1% within the last two years and 16.4% more than two years ago. A significantly higher proportion of women aged 18-29 had been screened within the last two years (49.6%) than those aged 30-44 years (26.5%) and 45-69 (18.1%). It was also found that 35.3% of women indicated they had done self-breast examination to check for abnormalities, with a significantly higher proportion of those aged 45-69 having done so (45.4%) than those aged 18-29 (27.6%).

Mental health

With regards to the state of mental well-being, 58.5% of Nauruans were classified as well, 23.4% as having a mild mental disorder, 12.8% as having a moderate mental disorder and 5.3% as having a severe mental disorder (using K10 scores). There were no statistically significant differences between men and women and between the three age groups.

Oral health

Most Nauruans (69.8%) had been to a dentist for a check-up with no treatment required; 24.6% visited a dentist and had an extraction or tooth filled; and 5.6% had not visited a dentist in the last six months.

More than half (58.5%) of Nauruans described their teeth as being in a painful state, 7.2% as being decayed, 11.8% as having loose or mobile teeth, and 22.5% as having good teeth. The proportion of Nauruans who indicated that their teeth were in a painful state decreased with age – 66.7% among 18-29 year olds, 57.8% among 30-44 year olds and 45.0% among 45-69 year olds.

Physical risk factors

The mean body mass index (BMI) of Nauruans was 34.4 kg/m2 – those aged 18-29 had a lower mean BMI (32.3) than those aged 30-44 years (35.8) and 45-69 (35.7). There was no statistically significant difference between men and women.

According to the BMI risk categories, 0.1% were underweight, 9.8% were of normal weight, 19.8% were overweight, and 70.2% were obese. A significantly higher proportion of Nauruans aged 18-29 were classified as overweight (25.9%) than those aged 30-44 years (15.4%); and a higher proportion of those aged 30-44 years (77.9%) and 45-69 (77.1%) were classified as obese compared to those aged 18-29 (59.5%). There was no statistically significant difference between men and women.

The mean waist circumference of men was 105.2 cm and 103.0 cm for women. Younger men and women aged 18-29 had a significantly lower mean waist circumference than those aged 30-44 years and 45-69. In general, the mean hip circumference of men was 110.9 cm and 115.3 cm for women. Among women, those aged 45-69 (122.8 cm) had a higher mean hip circumference than those aged 18-29 (109.3 cm). The mean waist-hip ratio of men was 1.0 and 0.9 for women, whose difference was statistically significant. There was no statistically significant difference between the three age groups in relation to hip circumference and mean waist-hip ratio.

A quarter of the population (25.3%) had raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg or was currently on medication for the condition, with no statistically significant difference between men and women.

One tenth of the population (9.8%) had raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg or were currently on medication for raised blood pressure, with no statistically significant difference between men and women.

Overall, the mean systolic blood pressure (SBP) was 122.2 mmHg and the mean diastolic blood pressure (DBP) was 80.2 mmHg. The mean SBP and DBP increased with age. Men had significantly higher mean SBP than women (126.7 mmHg for men and 118.1 mmHg for women); and there was no statistically significant difference in DBP between men and women.

Among those who had raised blood pressure of SBP≥ 140 and/or DBP≥90 or were currently on medication, majority (90.6%) were not on medication and had raised blood pressure of SBP≥ 140 and/or DBP≥90; 3.6% were on medication and had raised blood pressure of SBP \geq 140 and/or DBP \geq 90; and 5.8% were on medication and had SBP < 140 and DBP < 90. There were no significant differences between men and women and between the three age groups.

Biochemical risk factors

The mean fasting blood glucose (plasma equivalent) was 6.5mmol/L or 116.6 mg/dl, and older Nauruans aged 45-69 year olds had a significantly higher mean than those aged 18-29 and 30-44 year olds. The proportion of Nauruans 17.1% were categorized as having impaired fasting glycemia; 21.9% had raised blood glucose (plasma equivalent) or were currently on medication for diabetes and 6.1% were currently on medication for diabetes.

The mean total cholesterol was 3.8 mmol/l, with no statistically significant differences between men and women and between the three age groups. Overall, 19.6% had total cholesterol \geq 5.0 mmol/l or were currently on medication for raised cholesterol and 7.9% had total cholesterol ≥ 6.2 mmol/l or ≥ 240 mg/dl or were currently on medication for raised cholesterol. A significantly higher proportion of Nauruans aged 45-69 had total cholesterol \geq 5.0 mmol/l or was currently on medication for raised cholesterol (30.8%) than those aged 18-29 (12.0%).

Among women of child-bearing age, 35.2% had anaemia and the mean haemoglobin level was 13.0 g/dl.

Combined risk factors

In Nauru, 33.4% had 1-2 risk factors and 66.6% had 3-5 risk factors. A significantly higher proportion of Nauruans aged 18-29 (44.3%) had 1-2 risk factors compared to those aged 45-69 (18.4%); and a significantly higher proportion of those aged 45-69 (81.6%) had 3-5 risk factors compared to those aged 18-29 (55.7%). There was no significant difference between men and women.

Comparison of results with previous survey aged 18-64

Comparison of the two surveys (the first one in 2004 and the second one now in 2015) among adults aged 18-64 reveals some positive trends but also some negative ones. Only changes which are statistically significant are presented here.

- Reduction in prevalence of current smokers (53.1% → 46.6%).
- Reduction in prevalence of current daily smokers (50.0% → 40.9%)
- Decrease in the number of manufactured cigarettes smoked per day (19.6 \rightarrow 16.3)
- Reduction in prevalence of current drinkers (current and past 12 months drinkers) (46.2% →45.0%)
- Increase in the mean number of days fruit was consumed $(0.9 \rightarrow 1.8)$
- Increase in the mean number of fruit servings consumed per day $(0.3 \rightarrow 0.5)$
- Increase in prevalence of obesity (63.6% → 70.5%)
- Increase in the prevalence of diabetes (14.9% \rightarrow 21.7%)
- Increase in mean DBP (mmHg) including those currently on medication for the condition (77.4 mmHg → 80.0 mmHg).
- Decrease in mean total blood cholesterol (mmol/l) (4.5 mmol/l) → 3.8 mmol/l)
- Decrease in proportion of adults with raised total cholesterol ≥ 5.0 mmol/l or who were currently on medication for raised cholesterol (37.0% → 19.6%)
- Increase in proportion of adults with raised total cholesterol ≥ 6.2 mmol/l or who were currently on medication for raised cholesterol (4.7% → 10.0%)

Conclusion

The data has provided current data on NCD risk factors in Nauru, and will enable monitoring of progress and evaluation of the impact of health promotion programmes and interventions. Since the first NCD STEPS survey, efforts need to be increased to reduce prevalence of tobacco use, prevent youth from initiating smoking, reduce harmful use of alcohol, reduce consumption of salt and sugar, and to continue to promote consumption of fruits and vegetables and physical activity.

Recommendations

A summary of priority actions for Nauru are outlined below:

Governance and leadership

- 1. Evaluate progress in implementation of the NCD Strategic Action Plan 2015-2020 with all relevant stakeholders.
- 2. Secure increased resources for health promotion and NCDs.

Surveillance

3. Establish an ongoing and robust NCD STEPS surveillance system to enable monitoring of trends and use of data for action.

Strategies to address NCD risk factors

- 4. Address tobacco use through increasing excise tax, amending tobacco act and regulations (i.e. ban sale of
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- single sticks and prohibit point of sale advertising), and providing cessation services.
- 5. Address harmful use of alcohol through increasing excise tax, controlling access to alcohol by youth, enforcing law against driving under the influence of alcohol, and regulating the license to sell.
- 6. Work with food producers and manufacturers to reduce level of salt or sodium, free and added sugars, portion size, energy density and pricing to encourage production and sale of healthier options that are affordable.
- 7. Create health-enabling environments and settings (e.g. villages, workplaces, schools, markets) to promote healthy living.

Establish and maintain coalitions and partnerships

8. Build coalitions and partnerships across sectors to address NCD risk factors that are beyond the authority of the Ministry of Health, such as food importation, trade, tax, commercial investment and agriculture. Collaborate with media, faith-based organizations and nongovernmental organizations to implement advocacy and education programmes.

Strengthen health systems

- 9. Promote universal health coverage as a means of preventing and controlling NCDs.
- 10. Enhance access to essential NCD interventions through expansion of the WHO Package of Essential Noncommunicable Disease Interventions.
- 11. Assess gaps in manpower and facilities and develop a plan or alternative strategies to fill the gaps and meet demand for services

1. INTRODUCTION

1.1. Background and rationale

Noncommunicable diseases are now the leading causes of morbidity and mortality in many countries including Nauru. NCDs were responsible for 68% of the world's deaths in 2012; and out of the 38 million deaths worldwide due to NCDs, more than 40% were premature, affecting people under 70 years of age. The majority of premature deaths were found to be in low- and middle-income countries. It was estimated that between 2011 and 2025, the economic losses from NCDs, if nothing changed, would be US\$7 trillion. This far exceeds the annual cost of US\$11.2 billion to implement a set of high-impact interventions.

In 2011, world leaders committed to addressing NCDs through the Political Declaration of the High-Level Meeting of the General Assembly on the Prevention and Control of NCDs. Subsequently in 2013, the World Health Assembly (WHA) adopted a comprehensive global monitoring framework and nine voluntary global targets to be attained by 2025. The WHA had also endorsed a set of actions, outlined in the WHO Global action plan for the prevention and control of noncommunicable diseases 2013-2020, to be implemented by Member States and the WHO. ^{II}

Nauru has three key documents that guide health sector strategies: (1) Noncommunicable Disease (NCD) Strategic Action Plan 2015-2020, (2) National Sustainable Development Strategy (NSDS) 2005-2025, and (3) Ministry of Health and Medical Service Strategic Plan 2010-2015. Nauru's NCD Strategic Action Plan seeks to improve nutrition and food security, increase physical activity, decrease tobacco use and harmful use of alcohol through strengthening health systems, primary health care, curative health and support services. The measures outlined include establishing a multisectoral coordination committee, developing policies, legislation and regulations, using taxes, strengthening enforcement of legislation, implementing settings-based programmes and strategic health communication activities, allocating areas for physical activity and recreation, and organizing community exercise programmes. There were also plans to strengthen the workforce, the health care service delivery infrastructure, and the monitoring and surveillance of NCDs.

For Nauru to achieve the overarching global target of 25% reduction of premature mortality from the four major NCDs by 2025, it needs to know the current prevalence of risk factors contributing to NCDs. As such, this survey was conducted to provide current estimates on NCDs and their risk factors, inform development of policies and programmes, and assess progress and effectiveness of strategies and interventions. Repeated surveys will enable Nauru to map trends and report on progress made in attaining the nine voluntary global targets.

1.2. The national context

1.1.1 Geography

Nauru is a single coral island located in the central Pacific, 60 kilometres south of the equator. It is part of the sub-region of Micronesia and its nearest neighbour is Kiribati. Nauru is a small island – 6 kilometres in length with a total land area of 21.1 square kilometres. iii

Nauru has two main seasons – wet from November to February and dry between March and October. iv

1.1.2 Population and culture

The population of Nauru was estimated to be 9976 in 2010, with about 35.6% below 15 years of age and 1.3% who are 65 years and above. The total fertility rate was estimated at 2.9 in 2013 and its population growth rate is 1.8%. Life expectancy at birth is currently 52.5 years for men and 58.2 years for women. Nauruan is the official language but English is widely spoken and used for most Government and commercial purposes.

1.1.3 Government

Nauru is governed by a President elected by the Parliament, who is both head of state and Government. The Parliament is elected by popular vote every three years.

Nauru experienced frequent changes of administration between 1989 and 2011.xi

1.2.4 Economy

Nauru is classified by the World Bank as a high income country. xii Nauru's per capita gross domestic product was US\$7821 in 2014. XIII Government and state-owned enterprises dominate employment. XIV

Its major economic activity is phosphate mining though reserves are declining. xv In 2009, the top five industries contributing to GDP were mining and quarrying, commerce, public administration and services, transport and communication, and ownership of dwellings. xvi

Coconut, banana and papaya are the main fruit crops and small quantities of vegetables are also grown. However, most food and water in Nauru are imported from Australia and other countries such as China. xvii

1.2.5 Health infrastructure and health status

The Republic of Nauru Hospital offers a number of medical and surgical specialties including laboratory, radiological and pharmacy service. xviii According to 2011 estimates, the health worker to population ratio was 1:1000 for doctors, 1:162 for nurses and 1:10 000 for dentists. xix

NCDs are the leading cause of mortality, morbidity and disability in Nauru. The main NCDs are ischaemic heart disease, complications of hypertension, diabetes, kidney disease and lower respiratory infection. XX The burden of NCDs is expected to rise with high and increasing prevalence of obesity, diabetes, raised blood pressure and raised cholesterol.

According to the 2013-2017 WHO Country Cooperation Strategy, the island is faced with several challenges: (1) shortage of health professionals, (2) inequity in social determinants, and (3) vulnerability due to isolation and limited transportation of goods and services. There are opportunities however to alleviate the situation: (1) clear evidence and data on disease prevalence, (2) Government's commitment to prevent and control NCDs, and (3) substantial support from development partners and regional agencies. xxi

1.3. **Developing NCD STEPS in Nauru**

Nauru conducted the first NCD STEPS survey in 2004 and included 2,272 respondents aged 15-64. This second NCD STEPS survey included 1,387 respondents aged 18-69. This will inform resource allocation for NCD prevention and control, inform policy and programmes, enable monitoring of progress towards the global NCD targets by 2025, and enable reporting as part of country commitments to the UN Political Declaration on NCDs.

The overall aim of the NCD STEPS risk factor survey is to investigate the prevalence of key NCDs and their associated risk factors.

The STEPS survey:

2. OBJECTIVES

- To document the prevalence and magnitude of key NCDs and their modifiable risk factors among adults aged 18-69.
- To compare NCDs and their risk factors across three age groups and between men and women.
- To monitor progress towards achieving the 9 voluntary global targets by 2025.

Nauru's objectives were to:

- Describe the current levels of risk factors for chronic diseases in the Nauru population.
- Track the direction and magnitude of changes in risk factors since the first STEPS.
- Collect data which can be used for planning, evaluation and prediction of future demands for health services.
- Build country capacity for survey planning, implementation, analysis, reporting and publication.
- Contribute to a regional NCD data repository and country-level reporting in 2016 and 2025, to the UN.

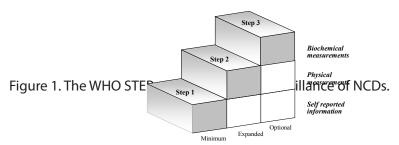
3.1. Survey structure

3. METHODOLOGY

follows (Figure 1):

- oral health, mental health and accidents.
- Step 2: Physiological measures of blood pressure, height, weight, and waist circumference.
- Step 3: Biochemical measures of fasting blood glucose, total cholesterol, HDL and urine assessment of salt intake.

The second Nauru NCD STEPS Survey in 2015 used Version 3.1 of the questionnaire whilst Version 1.4 was used in the first survey in 2004. Similar to other NCD STEPS surveys conducted in the Pacific region, the Nauru survey collected core information across all three steps. NCD STEPS standardized survey methodology was followed. Differences between age groups or sexes are statistically significant if 95% Confidence Intervals (CI) do not overlap.



3.2. Survey sampling methodology

The second Nauru STEPS Survey was a population-based survey of 18-69 year olds. The decision was to use three age groups: 18-29, 30-44, 45-69 for men and women using the following corrections:

- Design Effect of 1.0
- 95% confidence interval; p value .05
- 76% response rate
- Baseline prevalence percentage indicator: 0.5
- FPC 10%
- 6 age-sex groups (18-24 years, 25-44 years, 45-69 years)

As STEPS is intended to be nationally representative, a simple random sample of individuals was identified, based on the most recent census survey.

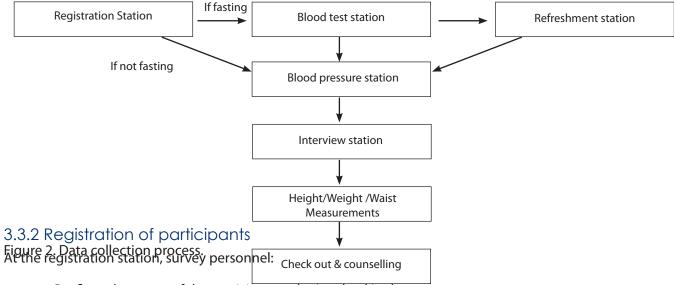
3.2.1. Sample size

A sample size of 1,860 was calculated, according to the WHO standard formula for STEPS to ensure national representativeness and the participants were randomly selected from the list of individuals obtained from the census aged 18-69. Overall, 1,386 individuals participated yielding a response rate of 74.5%.

3.3. Data collection process

In general, the survey personnel obtained informed consent from survey participants, gave fasting instructions to those participating in STEP 3, and made appointment times for those who consented to participate in the survey. Survey personnel conducted STEP 1 (questionnaire) at home if the participant was willing; if not, it will follow STEPS 2 and 3, which was done at the Public Health office.

3.3.1 Sequence of data collection and stations at the survey base



- Confirmed consent of the participant to be involved in the survey.
- Ensured that participants understood steps 1, 2 and 3 involved in the survey.
- Obtained participant's date of birth and confirmed that they were within their target group.
- Confirmed fasting status of the participant.
- Directed the participant to the appropriate station depending on their fasting status.

3.3.3 Step 1 - Behavioural risk factors interviews

All participants participated in a face-to-face interview in which questions were asked on smoking, alcohol, kava, fruit and vegetable consumption, salt, fat and sugar consumption, injury, reproductive health, physical activity, history of chronic conditions and medications, cervical cancer screening, mental health and oral health. The questionnaire was administered through a personal digital assistant (PDA).

3.3.4 Step 2 - Physical measurements

Survey staff obtained physical measurements following the recommended STEPwise protocols. Height and weight were measured once using the Seca Stadiometer to the nearest whole centimetre and the Seca weighing scales to the nearest 0.1 kg, respectively. Participants were measured without shoes and wearing only light clothing.

Waist circumference was measured once using the Figure Finder constant tension tape and recorded to the nearest 0.1 cm. Waist circumference of pregnant participants was not measured.

The OMRON M4 Digital Automatic Blood Pressure Monitor was used to measure resting blood pressure. Blood pressure was measured three times - the first reading followed by two more measurements taken in 2-3 minute intervals. The three readings of the blood pressure were recorded, and the average of the second and third readings was used in the analysis.

3.3.5 Step 3 - Biochemical measurements

The survey included taking blood and urine samples. To measure fasting blood glucose and total cholesterol, participants fasted from 10:00pm the previous night until 7:00am the following morning. Capillary blood samples were drawn using the finger prick method; and the Cardiochek PA were used to measure cholesterol and glucose in samples. All women of childbearing age (18-49 years old) had capillary blood samples drawn using the finger prick method to measure haemoglobin.

Spot urine sample to measure salt intake (sodium and creatinine) from a representative sub-sample of 720 participants was needed; however, 1000 were invited due to potentially high refusal rate. As this is the first salt intake assessment for Nauru, a sample of 200 staff from the Ministry of Health and all data collectors of the STEPS survey were asked to provide a 24-hour and spot urine sample before or after the main STEPS data collection to validate the spot measurement.

3.3.6 Check-out station

All participants received health advice and counselling and were provided with literature about smoking, alcohol drinking, obesity and nutrition, physical activity, hypertension, diabetes, and heart diseases. Participants who were identified as being at high risk of developing, or with advanced chronic conditions were referred to the Hospital Health Services for a follow-up clinical examination.

3.4. Data management and analysis

3.4.1 Data entry

Hand-held PDAs were used to record data as collected. When shortages of PDAs in some sites occurred, data was collected initially by hard copy and then transferred to PDAs when possible. Tracking forms were not consistently kept during the survey.

3.4.2 Data analysis

Data analyses were conducted using the Epi Info Version 3.5.4. Analysis was undertaken by the Division of Pacific Technical Support, and verified by WHO HQ NCD surveillance team.

4. **RESULTS**

The results presented below are supplemented by additional information in the Complete Data Book presented at Appendix 2.

4.1. Characteristics of the survey population

The survey respondents (1,387) were divided into three age groups: 18-29 years (537 participants), 30-44 (506 participants) and 45-69 (344 participants); and women made up slightly more than half of the respondents (53.0%).

The mean per capita annual income calculated based on 1,120 participants who responded to the survey question was AUD 5,890.

Table 1. Demographics of survey respondents

	Age group and sex of respondents											
Age group	Me	en		Women			Both sexes					
(years)	n	%		n	%		n	%				
18-29	271	50.5		266	49.5		537	38.7				
30-44	229	45.3		276	54.5		505	36.5				
45-69	151	43.9		193	56.1		344	24.8				
18-69	651	47.0		735	53.0		1386	100.0				

Table 2 shows that the survey respondents were primarily Nauruans (95.2%).

Table 2. Ethnicity of survey respondents

Ethnic group of respondents									
		Both sexes							
Age group (years)	n	% Nauruans	% Other ethnic group						
18-29	537	96.8	3.2						
30-44	505	96.0	4.0						
45-69	344	91.6	8.4						
18-69	1386	95.2	4.8						

Table 3 shows that there were small differences between age groups and between men and women – 10.8 years of education among 18-29 year olds, 10.2 years among 30-44 year olds and 10.6 years among 45-69 year olds; and 10.4 years among men and 10.7 years among women.

Table 3. Mean number of years of education

	Mean number of years of education											
Age group	Me	en		Woi	men		Both	sexes				
(years)	n	Mean		n	Mean	Mean		Mean				
18-29	268	10.5		264	11.1		532	10.8				
30-44	229	10.2		274	10.3		503	10.2				
45-69	151	10.5		192	10.6		343	10.6				
18-69	648	10.4		730	10.7		1378	10.5				

Table 4 shows that 59.8% have completed secondary school education, 31.4% have at least primary school level of education, 5.6% have college degrees, 0.5% have post-graduate degrees, 2.2% have less than primary school education and 0.5% have no formal schooling. For the highest level of education among men or women, please see appendix 2.

Table 4. Highest level of education attained, both sexes combined

	Highest level of education											
				Both se	xes							
Age group (years)	n	% No formal schooling	% Less than primary school	% Primary school completed	% Second- ary school completed	% College/ University completed	% Post graduate degree completed					
18-29	537	0.4	3.4	35.0	58.5	2.6	0.2					
30-44	505	0.6	2.6	32.7	56.4	7.5	0.2					
45-69	344	0.6	0.0	23.8	66.9	7.3	1.5					
18-69	1386	0.5	2.2	31.4	59.8	5.6	0.5					

Table 5 shows that most respondents are currently married (53.2%), 27.1% have never married and 19.7% are of other marital status (separated, divorced, widowed or cohabiting). For marital status among men or women, please see appendix 2.

Table 5. Marital status, both sexes combined

	Marital status											
Vac akorio	Both sexes											
Age group (years)	n	% Never married	% Currently married	% Separated	% Divorced	% Widowed	% Cohabiting					
18-29	537	47.5	34.8	0.4	0.2	0	17.1					
30-44	505	16.8	67.3	5.0	1.4	2.8	6.7					
45-69	344	10.2	61.3	3.8	3.8	18.0	2.9					
18-69	1386	27.1	53.2	2.9	1.5	5.5	9.8					

Table 6 shows that 38.5% are non-government employees, 34.0% are government employees, 2.7% are self-employed and 24.8% are in unpaid work (non-paid, studying, conducting home duties, retired) or unemployed.

A greater proportion of women than men were in unpaid work (33.3% of women vs. 15.2% of men). Women tend to be working for the government (34.6% of women are government employees and 29.7% are non-government employees); whilst men tend to be non-government employees (48.4% of men are non-government employees and 33.3% are government employees). Also, a higher proportion of men were self-employed (3.1% of men and 2.4% of women). For employment status by sex, please see tables in appendix 2.

Table 6. Employment status, both sexes combined

	Employment status										
Ago group	Both sexes										
Age group (years)	n	% Government employee	% Non-government employee	% Self-employed	% Unpaid						
18-29	537	33.7	40.4	1.7	24.2						
30-44	505	36.0	43.4	3.4	17.2						
45-69	344	31.4	28.2	3.5	36.9						
18-69	1386	34.0	38.5	2.7	24.8						

Table 7 shows that among those engaged in unpaid work, majority were unemployed but able to work (60.5%), 12.8% were unemployed and not able to work, and 14.8% were home-makers, 8.7% were retired, 2.0% were students and 1.2% were not paid.

Among women who were unpaid and unemployed, most were unemployed but able to work (58.0%), 19.6% were home-makers, 13.1% were unemployed and not able to work and the rest were either students or retirees. Among men, most were unemployed but able to work (66.7%), 12.1% were unemployed but not able to work, 12.1% were retired and the rest were in non-paid work, students or retirees. For details on type of unpaid or unemployment status by sex, please see appendix 2.

Table 7. Unpaid work and unemployment, both sexes combined

	Unpaid work and unemployment											
Age group (years)				Both sexes								
			% Student	0/ 110,000		Unemployed						
	n % Non-p	% Non-paid		% Home- maker	% Retired	% Able to	% Not able					
						work	to work					
18-29	130	0.8	4.6	12.3	0	76.2	6.2					
30-44	87	0	1.1	20.7	0	71.3	6.9					
45-69	127	2.4	0.0	13.4	23.6	37.0	23.6					
18-69	344	1.2	2.0	14.8	8.7	60.5	12.8					

4.2. Tobacco use

This section elaborates on tobacco consumption status, levels and patterns in Nauru. The questionnaire asked whether they smoked tobacco products and were then categorized into the following:

- Current smokers those who currently smoke any tobacco products (such as cigarettes, cigars or pipes).
- Current daily smokers those who currently smoke tobacco products daily.
- Current non-daily smokers those who currently smoke tobacco products but not daily.
- Current smokeless tobacco users those who currently used smokeless tobacco products (such as snuff, chewing tobacco or betel).
- Current daily smokeless tobacco users those who currently used smokeless tobacco products daily.
- Current non-daily smokeless tobacco users those who currently used smokeless tobacco products but not daily.
- Current tobacco users those who currently used smoking and smokeless tobacco products.

Table 8 shows that nearly half of the Nauruan population (46.3%, 95% CI = 43.2-49.5) were current smokers – 47.4% (95% CI = 42.1-52.8) of men and 45.3% (95% CI = 41.6-49.0) of women.

Among men, significantly more men aged 18-29 were current smokers (53.9%, 95% CI = 47.1-60.6) compared to those aged 45-69 (35.1%, 95% CI = 27.4-42.8).

In general, there were no statistically significant differences in smoking prevalence between men and women and between the three age groups.

Table 8. Percentage of current smokers

	Percentage of current smokers											
		Men			Womer	า			Both sexe	?S		
Age group (years)	n	% Current smoker	95% CI	n	% Current smoker	95% CI		n	% Current smoker	95% CI		
18-29	271	53.9	47.1-60.6	266	42.9	34.7-51.1		537	48.2	41.6-54.8		
30-44	229	47.6	39.8-55.4	276	50.0	43.9-56.1		505	48.8	43.3-54.2		
45-69	151	35.1	27.4-42.8	193	43.5	33.2-53.8		344	39.7	32.5-46.9		
18-69	651	47.4	42.1-52.8	735	45.3	41.6-49.0		1386	46.3	43.2-49.5		

Table 9 shows that most men (52.6%, 95% CI = 47.2-57.9) did not smoke any tobacco products, 42.4% (95% CI = 37.8-47.0) were current daily smokers and 5.1% (95% CI = 3.2-7.0) were current non-daily smokers.

Significantly more men aged 18-29 were current daily smokers (49.1%, 95% CI = 42.1-56.1) compared to those aged 45-69 (31.1%, 95% CI = 23.9-38.4). Similarly, significantly more men aged 45-69 were non-smokers (64.9%, 95% CI = 57.2-72.6) compared to those aged 18-29 (46.1%, 95% CI = 39.4-52.9).

Table 9. Smoking status among men

	Smoking status													
	Men													
Age group (years)	n	Current smoker % Does not												
(years)	n	% Daily	95% CI	% Non-daily	95% CI	smoke	95% CI							
18-29	271	49.1	42.1-56.1	4.8	2.4-7.2	46.1	39.4-52.9							
30-44	229	41.5	36.0-47.0	6.1	2.2-10.1	52.4	44.6-60.2							
45-69	151	31.1	23.9-38.4	4.0	0.6-7.3	64.9	57.2-72.6							
18-69	651	651 42.4 37.8-47.0 5.1 3.2-7.0 52.6 47.2-57.9												

Table 10 shows that the majority of women were non-smokers – 54.7% (95% CI = 51.0-58.4) did not smoke, 39.1% (95% CI = 36.0-42.2) current daily smokers and 6.2% (95% CI = 4.4-8.0) were current non-daily smokers.

There was no statistically significant difference between the three age groups.

Table 10. Smoking status among women

	Smoking status														
		Women													
Age group		Current smoker % Does not													
(years)	n	% Daily	95% CI	% Non-daily	95% CI	smoke	95% CI								
18-29	266	35.3	28.8-41.9	7.5	4.1-10.9	57.1	48.9-65.3								
30-44	276	45.3	38.9-51.7	4.7	1.6-7.9	50.0	43.9-56.1								
45-69	193	37.8	37.8 29.5-46.1 5.7 1.4-10.0 56.5 46.2-66.8												
18-69	735	39.1	36.0-42.2	6.2	4.4-8.0	54.7	51.0-58.4								

Table 11 shows that more than half overall indicated that they were non-smokers – 53.7% (95% CI = 50.5-56.8) did not smoke, 40.7% (95% CI = 38.1-43.3) were current daily smokers and 5.6% (95% CI = 4.0-7.2) were current non-daily smokers. There was no statistically significant difference between the three age groups.

Table 11. Smoking status, both sexes combined

	Smoking status												
				Both sexes	5								
Age group			Current	smoker		0/ Dags mat							
(years)	n	% Daily	95% CI	% Non- daily	95% CI	% Does not smoke	95% CI						
18-29	537	42.0	36.2-47.7	6.2	3.5-8.9	51.8	45.2-58.4						
30-44	505	43.3	38.7-48.0	5.4	2.6-8.3	51.2	45.8-56.7						
45-69	344	34.8	34.8 28.6-41.0 4.9 2.3-7.5 60.3 53.1-67.5										
18-69	1386	36 40.7 38.1-43.3 5.6 4.0-7.2 53.7 50.5-56.8											

Table 12 shows that among current smokers, 87.8% (95% CI = 84.7-90.9) smoke daily – 89.3% (95% CI = 85.7-92.9) of men and 86.4% (95% CI = 82.9-89.9) of women. There was no statistically significant difference between men and women and between the three age groups.

Table 12. Percentage of current smokers who smoke daily

	Daily smokers among current smokers													
Ago group		Men			Women Both sexes						es			
Age group (years)	n	% Daily smokers	95% CI		n	% Daily smokers	95% CI		n	% Daily smokers	95% CI			
18-29	146	91.1	86.5-95.7		114	82.5	76.2-88.7		260	87.1	82.1-92.2			
30-44	109	87.2	80.2-94.1		138	90.6	84.4-96.8		247	88.9	83.5-94.2			
45-69	53	88.7	79.6-97.8		84	86.9	78.6-95.2		137	87.6	81.8-93.4			
18-69	308	89.3	85.7-92.9		336	86.4	82.9-89.9		644	87.8	84.7-90.9			

Table 13 shows that the mean age of initiating smoking among current daily smokers was 16.4 (95% CI = 15.9-16.8) years. There were no statistically significant differences between men and women and between the three age groups.

Table 13. Mean age started smoking among current daily smokers

	Daily smokers among current smokers													
A = 0 = 110 + 110		Men				Women		Both sexes						
Age group (years)	n	% Daily smokers	95% CI		n	% Daily smokers	95% CI		n	% Daily smokers	95% CI			
18-29	131	16.1	15.5-16.7		91	15.6	14.7-16.4		222	15.8	15.3-16.4			
30-44	91	17.8	16.6-19.0		121	15.8	14.8-16.7		212	16.7	15.9-17.6			
45-69	45	17.1	15.8-18.4		71	16.7	15.0-18.4		116	16.9	15.7-18.0			
18-69	267	16.8	16.2-17.4		283	15.9	15.3-16.6		550	16.4	15.9-16.8			

Table 14 shows that the mean duration of smoking among current daily smokers was 17.8 years – 15.9 years (95% CI = 14.4-17.5) for men and 19.8 years (95% CI = 17.5-22.1) for women; 8.0 years (95% CI = 7.3-8.7) for those aged 18-29, 19.1 years (95% CI = 18.1-20.1) for those aged 30-44 years and 36.8 years (95% CI = 35.6-38.1) for those aged 45-69 years.

There was a statistically significant difference in mean duration of smoking between all three age groups but no statistically significant difference between men and women.

Table 14. Mean duration of smoking among current daily smokers

	Mean duration of smoking													
Δ		Men			Women						es			
Age group (years)	n	Mean duration	95% CI		n	Mean duration	95% CI		n	Mean duration	95% CI			
18-29	131	7.8	7.0-8.6		91	8.2	7.0-9.4		222	8.0	7.3-8.7			
30-44	91	18.3	16.9-19.7		121	20.0	18.9-21.0		212	19.1	18.1-20.1			
45-69	45	35.8	33.7-38.0		71	37.5	35.4-39.7		116	36.8	35.6-38.1			
18-69	267	15.9	14.4-17.5		283	19.8	17.5-22.1		550	17.8	16.2-19.5			

Table 15 shows that majority (96.0%, 95% CI = 93.5-98.5) of current daily smokers smoked manufactured cigarettes – 95.6% (95% CI = 93.1-98.1) of male current daily smokers and 96.4% (95% CI = 92.6-100.0) of female current daily smokers. There were no statistically significant differences between men and women and between the three age groups.

Table 15. Percentage of current daily smokers who smoked manufactured cigarettes

	Manufactured cigarette smokers among current daily smokers														
		Men				Wome	en		Both sexes						
Age group (years)	n	% Manu- factured cigarette smoker			n	% Manu- factured cigarette smoker	95% CI		n	% Manu- factured cigarette smoker	95% CI				
18-29	132	97.0	93.4-100.0		92	95.7	88.9-100.0		224	96.4	92.4-100.0				
30-44	94	93.6	88.2-99.0		121	97.5	94.6-100.0		215	95.6	92.7-98.5				
45-69	46	46 95.7 89.6-100.			73	95.9	90.2-100.0		119	95.8	90.8-100.0				
18-69	272	95.6	93.1-98.1		286	96.4	92.6-100.0		558	96.0	93.5-98.5				

Table 16 shows that the mean amount of tobacco used by current daily smokers were: 16.3 (95% CI = 15.1-17.4) manufactured cigarettes, 0.9 (95% CI = 0.5-1.3) hand-rolled cigarettes, 0.1 (95% CI = 0.0-0.3) of cigarettes, cheroots and cigarillos, 0.1 (95% CI = 0.0-0.3) of shisha, and 1.2 (95% CI = 0.2-2.2) of other types of tobacco.

Overall, Nauruans aged 18-29 who were currently daily smokers used significantly fewer manufactured cigarettes (14.7, 95% CI = 13.4-16.0) than those aged 45-69 (19.3, 95% CI = 17.1-21.5).

There were no statistically significant difference between men and women. Please see Appendix 2 for details.

Table 16. Mean amount of tobacco used by current daily smokers by type and age, both sexes combined

			Mean am	ount o	f tobacco us	ed by curre	ent dai	ily smokers	by type			
						Both se	xes					
Age grp (yrs)	n	Mean # of manu- factured cig.	95% CI	n	Mean #of hand- rolled cig.	95% CI	n	Mean # of pipes of tob.	95% CI	n	Mean # of cigs, che-roots, cigari-llos	95% CI
18-29	221	14.7	13.4-16.0	226	0.6	0.0-1.3	227	0.0	0.0-0.1	227	0.0	-
30-44	214	16.4	15.0-17.9	217	0.9	0.3-1.4	220	0.4	0.0-0.9	220	0.3	0.0-0.8
45-69	118	19.3	17.1-21.5	120	1.5	0.6-2.5	120	0.0	-	120	0.0	-
18-69	553	16.3	15.1-17.4	563	0.9	0.5-1.3	567	0.1	0.0-0.3	567	0.1	0.0-0.3

			Both	sexes		
Age grp (yrs)	n	Mean # of shisha	95% CI	n	Mean # of oth- ers	95% CI
18-29	227	0.1	0.0-0.1	93	0.8	0.0-1.8
30-44	220	0.3	0.0-0.8	124	1.5	0.2-2.7
45-69	120	0.0	-	72	1.3	0.0-3.3
18-69	567	0.1	0.0-0.3	289	1.2	0.2-2.2

Table 17 shows that 43.6% (95% CI = 38.1-49.2) of daily smokers were heavy smokers smoking 15-24 cigarettes each day, and 16.0% (95% = 13.6-18.4) were very heavy smokers smoking more than 25 cigarettes each day. Of the daily smokers, 17.5% (95% CI = 13.3-21.7) smoked 10-14 cigarettes, 13.7% (95% CI = 10.2-17.2) smoked 5-9 cigarettes and 9.1% (95% CI = 5.3-12.9) smoked less than 5 cigarettes a day.

Significantly more daily smokers aged 45-69 year olds were very heavy smokers – 26.5% (95% CI = 21.2-31.9) smoked more than 25 cigarettes a day – than those aged 18-29 years (11.6%, 8.0-15.3) and 30-44 years (15.2%, 95% CI = 10.7-19.8). There was no statistically significant difference between the three age groups for other categories of smokers.

Male and female daily smokers smoked substantial quantities of manufactured or hand-rolled cigarettes a day where nearly 6 in 10 smoked more than 15 cigarettes a day. Significantly more male than female daily smokers were very heavy smokers – 20.4% of men (95% CI = 16.1-24.7) and 11.5% of women (95% CI = 7.8-15.2) smoked more than 25 cigarettes a day. For more details on the quantity smoked by men and women, please see Appen-

Table 17. Percentage of daily smokers smoking the given quantities of manufactured or hand-rolled cigarettes each day

	Percentage of daily smokers smoking given quantities of manufactured or hand-rolled cigarettes per day														
٨٥٥		Both sexes													
Age grp	n	% < 5	95% CI	% 5-9	95% CI	% 10-14	95% CI	% 15-24	95% CI	% ≥ 25	95% CI				
(yrs)		cigs.		cigs.		cigs.		cigs.		cigs.					
18-29	212	11.3	6.2-16.4	16.1	10.5-21.8	19.4	12.9-25.8	41.5	34.3-48.8	11.6	8.0-15.3				
30-44	205	7.1	4.0-10.1	12.6	8.2-17.0	18.5	14.4-22.7	46.6	39.4-53.8	15.2	10.7-19.8				
45-69	114	8.0	2.1-13.9	10.5	3.9-17.1	12.1	7.2-16.9	42.9	30.0-55.9	26.5	21.2-31.9				
18-69	531	9.1	5.3-12.9	13.7	10.2-17.2	17.5	13.3-21.7	43.6	38.1-49.2	16.0	13.6-18.4				

Table 18 shows that overall, 15.6% of the population (95% CI = 13.3-17.8) were ex-daily smokers. Significantly more women than men were ex-daily smokers – 18.9% (95% CI = 16.2-21.5) of women and 12.0% (95% CI = 9.0-15.0) of men.

There were statistically significant differences across the three age groups where the proportion who were exdaily smokers increased with age -9.6% of Nauruans aged 18-29 (95% CI = 6.8-12.4), 15.4% of those aged 30-44 years (95% CI = 12.5-18.3), and 26.3% of those aged 45-69 years (95% CI = 20.3-32.3).

Table 18. Percentage of ex-daily smokers

	Ex-daily smokers														
		Men				Women				es					
Age group		% ex-				% ex-				% ex-					
(years)	n	daily	95% CI		n	daily	95% CI		n	daily	95% CI				
		smokers				smokers				smokers					
18-29	271	6.6	3.5-9.7		266	12.4	8.3-16.5		537	9.6	6.8-12.4				
30-44	229	13.1	8.9-17.3		276	17.8	12.5-23.0		505	15.4	12.5-18.3				
45-69	151	20.5	15.3-25.8		193	31.1	23.1-39.1		344	26.3	20.3-32.3				
18-69	651	12.0	9.0-15.0		735	18.9	16.2-21.5		1386	15.6	13.3-17.8				

Table 19 shows that overall, 0.1% (95% CI = 0.0-0.2) were current users of smokeless tobacco (e.g. snuff, chewing tobacco or betel) – 0.2% (95% CI = 0.0-0.5) of men and a negligible number of women.

There was no statistically significant difference between the three age groups.

Table 19. Percentage of current users of smokeless tobacco

	Current users of smokeless tobacco														
		Men				Women		Both sexes							
Age group (years)	n	% Cur- rent	95% CI		n	% Cur- rent users	95% CI		n	% Cur- rent	95% CI				
		users								users					
18-29	271	0.4	0.0-1.1		-	-	-		537	0.2	0.0-0.5				
30-44	229	0.0	0.0-0.0		-	-	-		505	0.0	0.0-0.0				
45-69	150	0.0	0.0-0.0		-	-	-		343	0.0	0.0-0.0				
18-69	650	0.2	0.0-0.5		-	-	-		1385	0.1	0.0-0.2				

Table 20 shows that most Nauruans (99.9%) do not use smokeless tobacco, and 0.1% (95% CI = 0.0-0.2) of current users were daily users.

There was no statistically significant difference between the three age groups and between men and women. Please see Appendix 2 for details.

Table 20. Status of smokeless tobacco use

	Smokeless tobacco use												
				Both sexes	S								
Age group		Current user % Does not											
(years)	n	% Daily	95% CI	95% CI	use smoke- less tobacco	95% CI							
18-29	537	0.2	0.0-0.5	-	-	99.8	-						
30-44	505	0.0	0.0-0.0	-	-	100.0	-						
45-69	343	0.0	0.0-0.0	-	-	100.0	-						
18-69	1385	0.1 0.0-0.2 - 99.9 -											

Table 21 shows that 1.1% (95% CI = 0.5-1.8) were ex-daily users of smokeless tobacco – 1.5% (95% CI = 0.6-2.5) of men and 0.8% (95% CI = 0.0-1.5) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 21. Percentage of ex-daily users of smokeless tobacco

	Ex-daily smokeless tobacco users												
Men						Women			Both sexes				
Age group		% Ex-				% Ex-				% Ex-			
(years)	n	daily	95% CI		n	daily	95% CI		n	daily	95% CI		
		users				users				users			
18-29	271	1.1	0.0-2.5		266	0.4	0.0-1.2		537	0.7	0.0-1.7		
30-44	229	1.7	0.0-3.6		276	1.1	0.0-2.3		505	1.4	0.2-2.6		
45-69	150	2.0	0.0-4.7		193	1.0	0.0-2.6		343	1.5	0.1-2.9		
18-69	650	1.5	0.6-2.5		735	0.8	0.0-1.5		1385	1.1	0.5-1.8		

Table 22 shows that nearly half of the population (46.4%, 95% CI = 43.2-49.7) were current tobacco users (smoking and smokeless) -47.7% (95% CI = 42.2-53.1) of men and 45.3% (95% CI = 41.6-49.0) of women.

Among men, significantly more aged 18-29 (54.2%, 95% CI = 47.2-61.3) were current tobacco users than those aged 45-69 (35.3%, 95% CI = 27.9-42.8).

In general, there were no statistically significant differences between men and women and between the three age groups.

Table 22. Percentage of current tobacco users (smoking and smokeless)

table 22.1 electricage of earlieft tobacco abers (smoking and smokeless)											
Current tobacco users											
	Men			Wome	n		Both sexes				
Age group (years)	n	% Current users	95% CI		n	% Current users	95% CI		n	% Current users	95% CI
18-29	271	54.2	47.2-61.3		266	42.9	34.7-51.1		537	48.3	41.5-55.2
30-44	229	47.6	39.8-55.4		276	50.0	43.9-56.1		505	48.8	43.3-54.2
45-69	150	35.3	27.9-42.8		193	43.5	33.2-53.8		343	39.8	32.7-46.9
18-69	650	47.7	42.2-53.1		735	45.3	41.6-49.0		1385	46.4	43.2-49.7

Table 23 shows that 40.8% (95% CI = 38.1-43.5) of the population were daily tobacco users – 42.6% (95% CI = 38.0-47.2) of men and 39.1% (95% CI = 36.0-42.2) of women.

Among men, significantly more aged 18-29 were daily tobacco users (49.4%, 95% CI = 42.3-56.6) than those aged 45-69 (31.3%, 95% CI = 24.2-38.4).

In general, there were no statistically significant differences between men and women and between the three age groups.

Table 23. Percentage of daily tobacco users (smoking and smokeless)

	Daily tobacco users												
		Men				Wome	n		Both sexes				
Age group (years)	n	% Daily users	95% CI		n	% Daily users	95% CI		n	% Daily users	95% CI		
18-29	271	49.4	42.3-56.6		266	35.3	28.8-41.9		537	42.1	36.2-48.1		
30-44	229	41.5	36.0-47.0		276	45.3	38.9-51.7		505	43.3	38.7-48.0		
45-69	150	31.3	24.2-38.4		193	37.8	29.5-46.1		343	34.9	28.8-41.0		
18-69	650	42.6	38.0-47.2		735	39.1	36.0-42.2		1385	40.8	38.1-43.5		

Table 24 shows that there are high rates of exposure to environmental tobacco smoke (ETS). More than half overall (54.7%, 95% CI = 49.6-59.8) have been exposed to ETS in homes in the past 7 days – 53.4% (95% CI = 46.7-60.1) of men and 55.9% (95% CI = 50.6-61.1) of women.

Among men, significantly more men aged 30-44 years (59.8%, 95% CI = 52.3-67.4) were exposed to ETS in the past 7 days than those aged 45-69 years (44.0%, 36.2-51.8%). There were no statistically significant differences between men and women and between the three age groups overall.

Table 24. Percentage who reported exposure to environmental tobacco smoke in homes in the past 7 days

	Exposed to ETS in home on 1 or more of the past 7 days											
A 01 0 0110 1 110	Men				Women				Both sexes			
Age group (years)	n	% Ex- posed	95% CI		n	% Ex- posed	95% CI		n	% Ex- posed	95% CI	
18-29	271	53.1	44.8-61.5		266	58.6	51.7-65.6		537	56.0	49.5-62.4	
30-44	229	59.8	52.3-67.4		276	50.4	43.6-57.1		505	55.2	50.0-60.3	
45-69	150	44.0	36.2-51.8		193	58.0	52.5-63.6		343	51.7	46.6-56.8	
18-69	650	53.4	46.7-60.1		735	55.9	50.6-61.1		1385	54.7	49.6-59.8	

Table 25 shows that 27.4% (95% CI = 21.8-33.1) overall reported exposure to ETS in the workplace in the past 7 days – 32.0% (95% CI = 26.3-37.8) of men and 23.0% (95% CI = 15.9-30.1) of women. There were no statistically significant differences between men and women and between the three age groups.

Table 25. Percentage who reported exposure to ETS in the workplace in the past 7 days

			<u>'</u>									
	Exposed to ETS in the workplace on 1 or more of the past 7 days											
A 51 5 5 11 5 1 1 1 5	Men				Women				Both sexes			
Age group (years)	5	% Ex-	0E% CI		5	% Ex-	05% CI		5	% Ex-	95% CI	
(years)	n	posed	95% CI		n	posed	95% CI		n	posed	95% CI	
18-29	212	30.2	23.4-37.0		208	25.0	15.1-34.9		420	27.5	20.6-34.4	
30-44	192	33.3	22.8-43.8		212	23.1	15.0-31.2		404	28.6	21.8-35.3	
45-69	117	33.3	22.3-44.4		153	19.6	10.8-28.4		270	25.7	18.3-33.2	
18-69	521	32.0	26.3-37.8		573	23.0	15.9-30.1		1094	27.4	21.8-33.1	

Table 26 shows that 1.3% (95% CI = 0.6-1.9) of the population currently use e-cigarettes – 1.7% (95% CI = 0.6-2.8) of men and 0.8% (95% CI = 0.1-1.6) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 26. Percentage of current e-cigarette users

	Current e-cigarette users											
	Men				Women				Both sexes			
Age group (years)	n	% Current users	95% CI	n	% Current users	95% CI	r	1	% Current users	95% CI		
18-29	271	3.0	0.5-5.4	266	1.1	0.0-2.4	53	37	2.0	0.8-3.2		
30-44	229	0.9	0.0-2.1	276	0.7	0.0-1.8	50)5	0.8	0.0-1.6		
45-69	150	0.7	0.0-2.1	193	0.5	0.0-1.6	34	13	0.6	0.0-1.4		
18-69	650	1.7	0.6-2.8	736	0.8	0.1-1.6	13	86	1.3	0.6-1.9		

The number of respondents using e-cigarettes was low and therefore it's not possible to report their frequency of use.

4.3. **Alcohol consumption**

This section elaborates on alcohol consumption status, levels and patterns. Respondents were asked whether they consumed alcohol and were then categorized into the following:

- Current drinkers those who consumed alcohol in the past 30 days.
- Occasional drinkers those who consumed alcohol in the past 12 month but not in the past 30 days.
- Past 12 months abstainers those who have consumed alcohol but had not done so in the past 12 months.
- Non-drinkers or lifetime abstainers those who have never consumed alcohol in his/her lifetime.

Table 27 shows that majority of men were non-current drinkers – 20.7% (95% CI = 17.9-23.5) of Nauruan men have never consumed alcohol, 21.3% (95% CI = 18.7-23.8) had consumed alcohol in the past 12 months though not currently, and 18.2% (95% CI = 16.1-20.3) had abstained from alcohol in the past 12 months. Slightly more than a third of men (39.8%, 95% CI = 35.5-44.1) were current drinkers.

Younger men aged 18-29 (42.1%, 95% CI = 35.5-48.7) and 30-44 years (45.4%, 95% CI = 37.2-53.6) were significantly more likely than older men aged 45-69 to be current drinkers (26.7%, 95% CI = 20.6-32.7). Older men aged 45-69 were significantly more likely to not have consumed alcohol in the past 12 months (27.3%, 95% CI = 22.2-32.5) than men aged 18-29 (15.1%, 95% CI = 12.2-18.1) and 30-44 years (16.2%, 95% CI = 12.5-19.8).

Table 27. Alcohol consumption status of men

	\Alcohol consumption status													
		Men												
Age group (years)	n	% Current drinker (past 30 days)	95% CI	% Drank in past 12 months, not cur- rent	95% CI	% Past 12 months abstainer	95% CI	% Lifetime abstainer	95% CI					
18-29	271	42.1	35.5-48.7	24.4	18.9-29.8	15.1	12.2-18.1	18.5	14.1-22.8					
30-44	229	45.4	37.2-53.6	19.2	14.4-24.1	16.2	12.5-19.8	19.2	14.0-24.4					
45-69	150	26.7	20.6-32.7	18.7	13.4-24.0	27.3	22.2-32.5	27.3	18.1-36.6					
18-69	650	39.8	35.5-44.1	21.3	18.7-23.8	18.2	16.1-20.3	20.7	17.9-23.5					

Table 28 shows that majority of women were not current drinkers – 40.8% (95% CI = 32.9-48.7) have never consumed alcohol, 29.2% (95% CI = 23.7-34.7) had abstained from alcohol in the past 12 months and 13.6% (95%CI = 10.8-16.4) had consumed alcohol in the past 12 months though not currently. Less than one-fifth of Nauruan women (16.4%, 95% CI = 13.2-19.6) were current drinkers.

Younger women aged 18-29 (19.5%, 95% CI = 14.9-24.2) and 30-44 years (18.8%, 95% CI = 13.6-24.1) were significantly more likely than older women aged 45-69 to be current drinkers (8.3%, 95% CI = 4.3-12.3). There was no statistically significant difference between the three age groups otherwise.

Table 28. Alcohol consumption status of women

	Alcohol consumption status											
				Women								
Age group (years)	n	% Current drinker (past 30 days)	95% CI	% Drank in past 12 months, not cur- rent	95% CI	% Past 12 months abstainer	95% CI	% Lifetime abstainer	95% CI			
18-29	266	19.5	14.9-24.2	15.0	10.3-19.7	25.2	19.3-31.0	40.2	32.2-48.2			
30-44	276	18.8	13.6-24.1	15.6	10.7-20.4	27.5	20.1-35.0	38.0	29.6-46.4			
45-69	193	8.3	4.3-12.3	8.8	3.3-14.3	37.8	27.7-47.9	45.1	32.5-57.7			
18-69	735	16.4	13.2-19.6	13.6	10.8-16.4	29.2	23.7-34.7	40.8	32.9-48.7			

Table 29 shows that 31.1% (95% CI = 25.9-36.2) overall were lifetime abstainers, 27.7% (95% CI = 24.9-30.6) were current drinkers, 17.3% (95% CI = 15.9-18.8) drank in the past 12 months though not currently, and 23.9% (95% CI = 21.0-26.7) abstained from alcohol in the past 12 months.

Younger people aged 18-29 (30.4%, 95% CI = 26.1-34.7) and 30-44 years (32.4%, 95% CI = 27.4-37.5) were more likely to be current drinkers than those aged 45-69 (16.6%, 95% CI = 13.2-20.0). Older Nauruans aged 45-69 (33.1%, 95% CI = 26.7-39.5) were more likely to have abstained from alcohol in the past 12 months than those aged 18-29 (20.3%, 95% CI = 17.5-23.2) and 30-44 years (21.7%, 95% CI = 17.9-25.5).

A significantly higher proportion of women than men abstained from alcohol (both lifetime and past 12 months). Correspondingly, a significantly higher proportion of men than women were alcohol drinkers (i.e. current and past 12 months). (Compare Tables 30 and 31.)

Table 29. Alcohol consumption status, both sexes combined

	Alcohol consumption status											
					Both sexe	es						
Age group (years)	n	% Current drinker (past 30 days)	95% CI	% Drank in past 12 months, not current	95% CI	% Past 12 months abstainer	95% CI	% Lifetime abstainer	95% CI			
18-29	537	30.4	26.1-34.7	19.5	16.2-22.8	20.3	17.5-23.2	29.7	24.3-35.2			
30-44	505	32.4	27.4-37.5	17.4	14.4-20.5	21.7	17.9-25.5	28.4	23.4-33.4			
45-69	343	16.6	13.2-20.0	13.3	8.7-17.8	33.1	26.7-39.5	37.1	27.8-46.3			
18-69	1385	27.7	24.9-30.6	17.3	15.9-18.8	23.9	21.0-26.7	31.1	25.9-36.2			

Table 30 shows that majority of those who consumed alcohol in the past 12 months drank infrequently -42.8% drank less than once a month (95% CI = 38.2-47.4) and 24.3% (95% CI = 20.3-28.2) drank 1-3 days per month. A small percentage drank daily or weekly -7.1% (95% CI = 4.3-9.9) drank 1-4 days per week, 2.9% (95% CI = 1.5-4.3) drank 5-6 days per week and 1.3% (95% CI = 0.3-2.3) drank daily.

There was no significant difference between the three age groups and between men and women in terms of the frequency of alcohol consumption. For details on the frequency of alcohol consumption for men and women, please see Appendix 2.

Table 30. Frequency of alcohol consumption among those who drank in the last 12 months, both sexes combined

			Freque	ncy of alco	hol consu	ımption iı	n the past 12	2 month	S		
						Both sex	es				
Age group (yrs)	n	07 0.4 0.0-1.2		% 5-6 days/ week	95% CI	% 1-4 days/ week	95% CI	% 1-3 days/ mth	95% CI	% < once/ mth	95% CI
18-29	107	0.4	0.0-1.2	2.9	1.3-4.4	6.7	3.1-10.2	28.2	20.5-35.8	39.9	31.6-48.2
30-44	116	0.9	0.0-2.7	2.1	0.4-3.7	9.0	2.5-15.4	19.0	12.6-25.4	47.7	41.5-53.9
45-69	41	5.0	0.0-10.2	5.0	1.0-9.1	4.0	0.4-7.6	24.9	16.2-33.5	40.2	30.2-50.1
18-69	264	1.3	0.3-2.3	2.9	1.5-4.3	7.1	4.3-9.9	24.3	20.3-28.2	42.8	38.2-47.4

Table 31 shows that the mean number of drinking occasions among current drinkers was 5.5 times (95% CI = 3.7-7.3) in the past 30 days. There were no statistically significant differences between the three age groups and between men and women.

Table 31. Mean number of drinking occasions in the past 30 days among current drinkers

	Mean nun	nber of dri	nking occasio	ns in the	pas	st 30 days an	nong current	(pa	st 30 days) drinkers	
Age group		Men				Women				Both sex	es
(years)			95% CI	r	l	Mean 95% CI			n	Mean	95% CI
18-29	112	5.0	3.4-6.7	5	1	5.4	0.3-10.4		163	5.2	2.4-7.9
30-44	103	6.0	4.4-7.6	5	2	3.8	2.6-5.0		155	5.4	4.4-6.4
45-69	39	6.3	3.0-9.6	10	5	8.6 1.5-15.8		55	7.0	3.2-10.7	
18-69	254	5.6	4.0-7.3	11	9	5.2	2.8-7.7		373	5.5	3.7-7.3

Table 32 shows that the mean number of standard drinks current drinkers consumed at each occasion was 13.7 (95% CI = 12.4-15.1) - 14.6 (95% CI = 13.2-15.9) for men and 11.7 (95% CI = 9.3-14.2) for women.

There were no statistically significant differences between men and women and between the three age groups.

Table 32. Mean number of standard drinks consumed on a drinking occasion among current drinkers

	Mean num	ber of star	ndard drinks pe	er c	drinking o	ccasion amo	ng current (p	as	t 30 day	/s) drinkers	
Age group		Men				Women				Both sea	xes
(years)	n	Mean	95% CI		n	Mean	95% CI		n	Mean	95% CI
18-29	100	16.4	13.9-18.9		47	13.4	8.7-18.2		147	15.4	13.0-17.8
30-44	102	13.6	10.7-16.6		48	10.9	8.8-12.9		150	12.9	10.7-15.0
45-69	38	12.1	9.2-15.1		16	8.0	3.1-12.9		54	11.0	8.3-13.7
18-69	18-69 240 14.6				111	11.7	9.3-14.2		351	13.7	12.4-15.1

Table 33 shows that overall, a small percentage of the population drank at the high-end level (3.0%, 95% CI = 1.7-4.4) – 4.3% (95% CI = 2.8-5.8) of men and 1.9% (95% CI = 0.4-3.3) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 33. Percentage who drank at the high-end level (\geq 60g of pure alcohol on average per occasion among men and \geq 40g of pure alcohol on average per occasion among women)

Percentage v	Percentage who drank at high-end level (≥ 60g of pure alcohol on average per occasion among men and ≥ 40g of pure														
	alcohol on average per occasion among women)														
A == = =====		Men				Women				Both sexe	S				
Age group (years)	n	% ≥ 60g	95% CI		n	% ≥ 40g	95% CI		n	% high- end level	95% CI				
18-29	257	5.1	2.5-7.6		260	2.7	0.0-5.7		517	3.8	1.4-6.2				
30-44	226	4.4	2.8-6.0		272	1.5	0.0-2.9		498	3.0	2.0-3.9				
45-69	148	2.7	0.3-5.1		193	1.0	0.0-2.4		341	1.8	0.2-3.4				
18-69	631	4.3	2.8-5.8		725	1.9	0.4-3.3		1356	3.0	1.7-4.4				

Table 34 shows that overall, a small percentage of the population drank at the intermediate level (2.1%, 95% CI = 1.3-3.0) - 3.2% (95% CI = 1.9-4.5) of men and 1.1% (95% CI = 0.3-2.0) of women.

Nauruans aged 30-44 years were more likely to drink at the intermediate level (3.7%, 95% CI = 1.7-5.8) than those aged 45-69 (0.6%, 95% CI = 0.0-1.5).

There was no statistically significant difference between men and women.

Table 34. Percentage who drank at the intermediate level (40-59.9g of pure alcohol on average per occasion among men and 20-39.9g of pure alcohol on average per occasion among women)

Percentage	Percentage who drank at intermediate level (40-59.9g of pure alcohol on average per occasion among men and 20-														
	39.9g of pure alcohol on average per occasion among women)														
Ago group	Age group Men Women Both sexes														
(years)		% 40-	050/ CI	50/ CI % 20-			% intermedi-	050/ CI							
(years)	n	59.9g	95% CI	95% CI	n	39.9g	95% CI		n	ate level	95% CI				
18-29	257	2.7	1.1-4.4		260	0.8	0.0-1.9		517	1.7	0.8-2.6				
30-44	226	4.9	2.0-7.7		272	2.6	0.5-4.7		498	3.7	1.7-5.8				
45-69	148	1.4	0.0-3.3		193	0.0	0.0-0.0		341	0.6	0.0-1.5				
18-69	631 3.2 1.9-4.				725	1.1	0.3-2.0		1356	2.1	1.3-3.0				

Table 35 shows that overall, 21.0% (95% CI = 19.0-23.0) of the population drank at the lower-end level. Significantly more men (30.5%, 95% CI = 26.6-34.4) than women (12.2%, 95% CI = 10.1-14.3) consumed alcohol at the lower-end level. Significantly more Nauruans aged 18-29 (22.3%, 95% CI = 18.3-26.2) and 30-44 years (24.7%, 95% CI = 19.5-30.0) drank alcohol at the lower-end level than those aged 45-69 (13.7%, 95% CI = 10.3-17.0).

There was no statistically significant difference between the three age groups.

Table 35. Percentage who drank at the lower-end level (< 40g of pure alcohol on average per occasion among men and < 20g of pure alcohol on average per occasion among women)

Percentage	Percentage who drank at lower-end level (< 40g of pure alcohol on average per occasion among men and < 20g of pure alcohol on average per occasion among women)														
			alcohol c	on a	average pe	er occasion a	mong women))							
		Men				Women				Both sex	es				
Age group										% lower-					
(years)	n	% < 40g	95% CI		n	% < 20g	95% CI		n	end	95% CI				
										level					
18-29	257	31.1	25.0-37.2		260	14.2	9.5-18.9		517	22.3	18.3-26.2				
30-44	226	35.4	26.9-43.9		272	13.6	9.3-17.9		498	24.7	19.5-30.0				
45-69	148	21.6	15.0-28.2		193	7.3	4.1-10.4		341	13.7	10.3-17.0				
18-69	631	30.5	26.6-34.4		725	12.2	10.1-14.3		1356	21.0	19.0-23.0				

Table 36 shows that among current drinkers, 80.3%, (95% CI = 76.7-83.8) engaged in lower-end level of drinking, 11.6% (95% CI = 7.0-16.2) in high-end level and 8.1% (95% CI = 5.0-11.2) in intermediate level of drinking.

There were no statistically significant differences between men and women and the three age groups.

For details on drinking levels of male and female current drinkers, please see Appendix 2.

Table 36. Percentage of current drinkers with different drinking levels, both sexes combined

	High-end, intermediate, and lower-end level drinking among current (past 30 days) drinkers														
A = 0 = 110 + 110				Both sexes											
Age group (years)	<u></u>	% high-	0E% CI	% intermedi-	0E0/. CI	% lower-	0E% CI								
(years)	n	end	95% CI	ate	95% CI	end	95% CI								
18-29	146	13.7	4.9-22.6	6.1	3.0-9.2	80.1	72.7-87.6								
30-44	149	9.5	7.0-12.0	11.9	4.8-19.0	78.6	70.3-86.9								
45-69	54	-	-	-	-	-	-								
18-69	349	11.6	7.0-16.2	8.1	5.0-11.2	80.3	76.7-83.8								

Table 37 shows that the mean maximum number of standard drinks current drinkers consumed on one occasion in the past 30 days was 16.8 (95% CI = 15.5-18.1) – 17.8 (95% CI = 16.5-19.1) for men and 14.5 (95% CI = 11.2-17.7) for women.

There was no statistically significant difference between men and women.

Table 37. Mean maximum number of standard drinks consumed on one occasion in the past 30 days among current drinkers

Mean maximum number of standard drinks consumed on one occasion in the past 30 days														
		Men				Women				Both sexe	<u>?</u> S			
Age group (years)	n	Mean maximum number	95% CI		n	Mean maximum number	95% CI		n	Mean maximum number	95% CI			
18-29	100	20.6	17.2-24.0		45	17.3	12.2-22.4		145	19.5	16.7-22.3			
30-44	102	16.5	13.9-19.2		48	11.7	8.9-14.5		150	15.2	13.0-17.4			
45-69	36	-		16	-	-		52	-	-				
18-69	238	17.8	16.5-19.1		109	14.5	11.2-17.7		347	16.8	15.5-18.1			

Table 38 shows that 24.1% (95% CI = 21.2-26.9) overall had six or more drinks on a single occasion at least once in the past 30 days – men were significantly more likely to binge drink (36.1%, 95% CI = 31.5-40.7) than women (12.8%, 95% CI = 10.4-15.2).

Nauruans aged 18-29 (26.3%, 95% CI = 22.4-30.2) and 30-44 years (29.0%, 95% CI = 23.1-34.8) were significantly more likely to have binge drink at least once in the past 30 days compared to those aged 45-69 (13.4%, 95% CI = 10.2-16.5).

Table 38. Percentage who had six or more drinks on a single occasion at least once during the past 30 days

Six	or more di	rinks on a	single occasio	n a	t least ond	e during th	e past 30 days	ar	nong tota	al populati	on
Ago group		Men				Women				Both sex	œs
Age group (years)	n	% ≥ 6 drinks	95% CI		n	% ≥ 6 drinks	95% CI		n	% ≥ 6 drinks	95% CI
18-29	271	38.7	32.7-44.8		266	14.7	10.6-18.7		537	26.3	22.4-30.2
30-44	229	41.5	32.1-50.9		276	15.9	10.5-21.4		505	29.0	23.1-34.8
45-69	150	22.7	16.3-29.0		193	5.7	2.4-9.0		343	13.4	10.2-16.5
18-69	650	36.1	31.5-40.7		735	12.8	10.4-15.2		1385	24.1	21.2-26.9

Table 39 shows that the mean number of times current drinkers consumed six or more drinks on a single occasion in the past 30 days was 4.2 (95% CI = 3.5-4.9) - 4.7 times (95% CI = 3.7-5.7) for men and 3.0 times (95% CI = 2.3-3.8) for women.

There was no statistically significant difference between men and women.

Table 39. Mean number of times current drinkers consumed six or more drinks on a single occasion in the past 30 days

Mean num	ber of tim	es with six	or more drink	s d	luring a si	ngle occasio	on in the past	30	days am	ong curren	t drinkers
		Men				Women				Both sexe	es es
Age group (years)	n	Mean number of times	95% CI		n	Mean number of times	95% CI		n	Mean number of times	95% CI
18-69	237	4.7	3.7-5.7		104	3.0	2.3-3.8		341	4.2	3.5-4.9

Table 40 shows that in the past 7 days, 34.8% (95% CI = 28.1-41.5) of current drinkers did not drink, 44.6% (95% CI = 39.9-49.3) drank 1-2 days, 11.4% (95% CI = 7.1-15.6) drank 3-4 days, 3.3% (95% CI = 1.0-5.6) drank 5-6 days, and 5.9% (95% CI = 2.5-9.3) drank daily.

A significantly higher proportion of male current drinkers drank 3-4 days a week (14.1%, 95% CI = 8.5-19.7) than female current drinkers (5.1%, 95% CI = 2.1-8.2). For details on the frequency of alcohol consumptions among male and female current drinkers in the past 7 days, please see Appendix 2.

Table 40. Frequency of alcohol consumption among current drinkers in the past 7 days, both sexes combined

		Fred	quency of alc	ohol consi	umption ir	the past	7 days amor	ng curre	nt drinkers						
Λ σι ο	Both sexes														
group (yrs)	(yrs) n Daily 95% CI da					% 3-4 days	95% CI	% 1-2 days	95% CI	% 0 days	95% CI				
18-29	157	4.5	0.0-10.0	3.8	0.3-7.4	11.1	5.6-16.7	44.7	36.7-52.7	35.8	28.0-43.7				
30-44	152	3.5	0.6-6.4	2.5	0.5-4.6	11.0	5.7-16.2	51.3	41.0-61.5	31.7	21.8-41.6				
45-69	54	-	-	1	-	-	-	-	-	-	-				
18-69	363	5.9	2.5-9.3	3.3	1.0-5.6	11.4	7.1-15.6	44.6	39.9-49.3	34.8	28.1-41.5				

Table 41 shows that current drinkers consumed on average 4.3 (95% CI = 2.6-6.9 = 0) standard drinks per day in the past 7 days. There were no statistically significant differences between men and women and between the age groups.

Table 41. Mean number of standard drinks current drinkers consumed on average per day in the past 7 days

	Mean	number o	f standard	drinks consun	nec	d on avera	ge per day i	n the past 7 d	ay:	s among (current dri	nkers
Men Women Both sexes												
	Age group (years)	n	Mean number	an 95% Cl n Mean number 95% Cl	n	Mean number 95% CI						
	18-69	249	4.6	3.1-6.0		114	3.7	0.9-6.4		363	4.3	2.6-6.0

Table 42 shows that very few (1.1%, 95% CI = 0.2-2.1) current drinkers consumed unrecorded alcohol in the past 7 days. Unrecorded alcohol includes alcohol brewed at home, brought over the border, not intended for drinking or that is untaxed.

There were no statistically significant differences between men and women and between the three age groups.

Table 42. Percentage of current drinkers who consumed unrecorded alcohol in the past 7 days

									<u>'</u>						
	Consumption of unrecorded alcohol														
		Men				Women				Both sexe	S				
Age group (years)	n	% con- suming unrecorded alcohol	95% CI		n	% con- suming unrecorded alcohol	95% CI		n	% con- suming unrecorded alcohol	95% CI				
18-69	256	1.2	0.0-2.5		119	1.0	0.0-2.9		375	1.1	0.2-2.1				

Table 43 shows that 21.6% (95% CI = 17.1-26.2) of those who had drunk in the past twelve months had experienced being unable to stop drinking monthly or more frequently and 20.1% (95% CI = 16.2-24.1) experienced it less than monthly. More than half (58.2%, 95% CI = 55.6-60.9) have never experienced being unable to stop drinking.

There were no statistically significant differences between the three age groups and between men and women. For more details on male and female past 12 month drinkers, please see Appendix 2.

Table 43. Percentage of drinkers (last 12 months) who were not able to stop drinking once started during the past year, both sexes combined

Percentage a	and regularity	of drinkers no	t being able to sto past 12 mo	op drinking once nth drinkers	started during th	e past 12 mo	nths among								
	Both sexes														
Age group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI								
18-29	272	25.2	18.4-31.9	18.1	14.0-22.2	56.7	51.2-62.2								
30-44	243	17.9	11.9-23.8	20.8	15.0-26.6	61.3	53.2-69.5								
45-69	101	19.9	9.6-30.3	24.7	12.5-36.8	55.4	43.2-67.6								
18-69	18-69 616 21.6 17.1-26.2 20.1 16.2-24.1 58.2 55.6-60.9														

Table 44 shows that 20.0% (95% CI = 15.3-24.6) reported failing to do what was normally expected from them because of drinking monthly or more frequently; and 26.7% (95% CI = 23.0-30.5) reported failing to do so less than monthly.

Significantly more men than women reported failing to do what was normally expected from them monthly or more frequently - 23.8% (95% CI = 19.0-28.6) of men compared to 12.7% (95% CI = 7.0-18.3) of women. For details please see Appendix 2.

There was no statistically significant difference between the three age groups.

Table 44. Percentage of past 12 month drinkers failing to do what was normally expected from them because of drinking during the past 12 months, both sexes combined

Percentage :	Percentage frequently failing to do what was normally expected from you during the past 12 months among past 12														
	month drinkers														
	Both sexes														
Age group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI								
18-29	272	24.7	17.0-32.5	28.0	21.9-34.2	47.3	39.5-55.0								
30-44	243	15.1	9.1-21.1	27.7	19.1-36.3	57.2	48.8-65.6								
45-69	101	17.1	8.3-25.9	20.8	10.4-31.2	62.1	51.8-72.4								
18-69	616	20.0	15.3-24.6	26.7	23.0-30.5	53.3	48.6-57.9								

Table 45 shows that majority (78.0%, 95% CI = 74.8-81.2) of past 12 month drinkers did not need a first drink in the morning to get going. However, 11.5% (95% CI = 8.4-14.7) needed it monthly or more frequently and 10.4% (95% CI = 8.2-12.7) needed it less than monthly.

Men were three times more likely to experience needing a first drink in the morning to get going monthly or more frequently than women – 15.1% (95% CI = 11.1-19.2) of men and 4.6% (95% CI = 0.9-8.4) of women. For details on men and women and the frequency of them needing a first drink in the morning to get going, please see Appendix 2.

Table 45. Percentage of past 12 month drinkers needing a first drink in the morning to get going during the past 12 months, both sexes combined

Percentage	Percentage of past 12 month drinkers needing a first drink in the morning to get going during the past 12 months														
		Both sexes													
	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI								
18-29	272	12.3	8.1-16.5	9.5	6.0-13.1	78.2	72.4-84.0								
30-44	243	9.0	4.1-14.0	11.9	8.9-14.8	79.1	74.5-83.7								
45-69	101	15.1	6.1-24.0	9.9	5.0-14.7	75.1	67.4-82.8								
18-69	616	11.5	8.4-14.7	10.4	8.2-12.7	78.0	74.8-81.2								

Table 46 shows that 19.5% (95% CI = 10.9-28.1) of former drinkers stopped drinking due to health reasons, with no statistically significant difference between the three age groups and between men and women.

Table 46. Percentage of former drinkers who stopped drinking due to health reasons

	Percentage of former drinkers who stopped drinking due to health reasons														
			Men				Women				Both sexe	es			
Age gro		n	% stop- ping due to health reasons	95% CI		n	% stop- ping due to health reasons	95% CI		n	% stop- ping due to health reasons	95% CI			
18-6	9	119	21.6	13.3-29.9		216	18.2	8.8-27.7		335	19.5	10.9-28.1			

Table 47 shows that overall, the majority (72.9%, 95% CI = 68.6-77.1) of the population never had family or partner problems due to someone else's drinking during the past 12 months. However, 23.5% (95% CI = 19.9-27.2) had such problems less than monthly and 3.6% (95% CI = 2.7-4.5) had them monthly or more frequently.

There were no statistically significant differences between the three age groups and between men and women. For more details on frequency of family or partner problems due to someone else's drinking experienced by men and women, please see Appendix 2.

Table 47. Percentage and regularity of family/partner problems due to someone else's drinking during the past 12 months, both sexes combined

Percentag	Percentage and regularity of family/partner problems due to someone else's drinking during the past 12 months													
	Both sexes													
Age group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI							
18-29	537	3.3	1.8-4.8	25.9	21.1-30.8	70.8	65.2-76.3							
30-44	505	4.0	2.4-5.6	25.0	22.1-28.0	71.0	67.8-74.2							
45-69	343	3.5	1.7-5.4	17.2	11.7-22.7	79.2	72.9-85.5							
18-69	1385	3.6	2.7-4.5	23.5	19.9-27.2	72.9	68.6-77.1							

4.4. Kava consumption

This section also aims to give insights into whether there is any relationship between kava consumption and alcohol and tobacco use.

Table 48 shows that 18.1% (95% CI = 13.2-22.9) overall have ever tried or drunk kava in the past 12 months. There were no statistically significant differences between the three age groups and between men and women.

Table 48. Percentage who consumed kava in the past 12 months

	Percentage who consumed kava in the past 12 months														
Vac akorio		Men				Womer		Both sexes							
Age group (years)	n	% Kava drinkers	95% CI		n	% Kava drinkers	95% CI		n	% Kava drinkers	95% CI				
18-29	271	19.6	15.5-23.6		266 12.8 7.6-17.9				537	16.0	12.0-20.1				
30-44	229	25.3	16.6-34.0		276	17.4	12.5-22.3		505	21.4	15.5-27.3				
45-69	150	20.0	12.9-27.1		193	14.5	5.1-23.9		343	17.0	9.5-24.4				
18-69	650	21.7	16.9-26.4		735	14.7	9.2-20.2		1385	18.1	13.2-22.9				

Table 49 shows that in the last 30 days, Nauruans consumed kava on 7.7 days (95% CI = 5.4-9.9) – 8.9 days (95%CI = 6.0-11.9) among men and 5.8 days (95% CI = 3.5-8.1) among women.

There were no statistically significant differences between men and women and between the three age groups.

Table 49. Mean number of days kava was consumed in the last 30 days.

	Mean number of days kava was consumed in last 30 days														
Age group		Men			Women Both sexes										
(years)	n	Mean days	95% CI		n	Mean days	95% CI		n	Mean days	95% CI				
18-29	52	7.6	4.1-11.0		33	5.7	1.6-9.8		85	6.8	3.7-9.9				
30-44	57	8.6	5.3-11.8		48	4.6	2.2-7.0		105	7.0	4.8-9.2				
45-69	30	12.2	5.7-18.7		25	8.0	2.7-13.3		55	10.4	6.3-14.4				
18-69	139	8.9	6.0-11.9		106	5.8	3.5-8.1		245	7.7	5.4-9.9				

Table 50 shows that Nauruans spent about 1.0 hour (95% CI = 0.8-1.3) drinking kava in a session – 1.2 hours (95% CI = 1.0-1.5) among men and 0.8 hours (95% CI = 0.5-1.1) among women.

There were no statistically significant differences between men and women and between the three age groups.

Table 50. Mean number of hours spent drinking kava in a session

	Mean number of hours spent drinking kava in a session														
		Men				Womer	١		Both sexes						
Age group		Mean				Mean				Mean					
(years)	n	number	95% CI		n	number	95% CI		n	number	95% CI				
		of hours				of hours				of hours					
18-29	271	1.2	0.9-1.4		266	0.8	0.4-1.2		537	1.0	0.7-1.3				
30-44	229	1.5	1.0-1.9		276	0.9	0.6-1.2		505	1.2	0.9-1.5				
45-69	151	1.0	0.6-1.5		193	0.7	0.3-1.2		344	0.9	0.5-1.3				
18-69	651	1.2	1.0-1.5		735	0.8	0.5-1.1		1386	1.0	0.8-1.3				

Table 51 shows that one third (33.4%, 95% CI = 26.5-40.2) of kava drinkers reported usually drinking alcohol during or after drinking kava.

There were no statistically significant differences between men and women and between the three age groups, please see Appendix 2.

Table 51. Percentage who usually drank alcohol during or after drinking kava, both sexes combined

	Respondents who usually drank alcohol during/after drinking kava													
	Men Women Both sexes													
Age group (years)	n	% alcohol consumption during/after kava session	95% CI		n	% alcohol consumption during/after kava session	95% CI		n	% alcohol consumption during/after kava session	95% CI			
18-69	141	38.3	28.9-47.8		110	26.5	19.2-33.8		251	33.4	26.5-40.2			

Table 52 shows that 69.1% (95% CI = 63.7-74.5) of kava drinkers reported usually smoking tobacco during or after drinking kava.

There was no statistically significant difference between men and women, please see more detail in Appendix 2.

Table 52. Percentage who usually smoked tobacco during or after drinking kava, both sexes combined

		Res	pondents us	ua	lly smoki	ng tobacco du	ıring/after d	rin	king ka	va					
	Men Women Both sexes														
Age group (years) n Wen Women Both sexes % smoking during/after kava session n kava session women Both sexes % smoking during/ after kava session n kava session goth sexes % smoking during/ after kava session															
18-69	18-69 141 70.4 63.0-77.7 110 67.3 58.7-76.0 251 69.1 63.7-74.5														

Table 53 shows that 61.7% (95% CI = 53.4-70.0) of kava drinkers would usually eat during and/or after drinking kava.

There were no statistically significant differences between men and women and between the three age groups.

Table 53. Percentage who usually consumed food during or after drinking kava, both sexes combined

	Respondents usually consumed food during/after drinking kava														
		Men			Women Both sexes										
Age group (years)	n	% Consumed food during/ after kava session	95% CI		n	% Consumed food during/ after kava session	95% CI		n	% Consumed food during/ after kava session	95% CI				
18-69	141	62.4	54.4-70.4		110	60.7	50.3-71.0		251	61.7	53.4-70.0				

Table 54 shows that 82.0% (95% CI = 73.6-90.4) consumed other types of food and drinks whilst 5.7% (95% CI = 73.6-90.4) 1.2-10.2) consumed soft drinks, 5.8% (95% CI = 1.5-10.1) consumed sweets and 6.5% (95% CI = 2.9-10.0) consumed salted snacks.

Table 54. Percentage who consumed the given types of food and drinks during or after drinking kava, both sexes combined

		Percentag	ge who consu	med given	food and drinl	ks during/aft	er drinking ka	va	
Ago group					Both sex	es			
Age group (years)	n	% Soft drinks	95% CI	% Sweets	95% CI	% Salted Snacks	95% CI	% Others	95% CI
18-69	154	5.7	1.2-10.2	5.8	1.5-10.1	6.5	2.9-10.0	82.0	73.6-90.4

4.5. Fruit and vegetable consumption

WHO recommends at least five portions (approximately 400 grams) of fruits and vegetables a day to reduce the risk of NCDs. To assess respondents' fruit and vegetable intake, they were asked how many days they consumed fruit and vegetables in a typical week, and how many servings of each type they consumed on one of those days.

Table 55 shows that the mean number of days fruit was consumed in a typical week was 1.8 days (95% CI = 1.7-

There were no statistically significant differences between men and women and between the three age groups.

Table 55. Mean number of days fruit was consumed in a typical week

		٨	lean number o	of o	days fruit o	consumed ir	n a typical we	ek			
		Men				Women				Both sex	(es
Age group		Mean				Mean				Mean	
(years)	n	number	95% CI		n	number	95% CI		n	number	95% CI
		of days				of days				of days	
18-29	269	1.9	1.7-2.1		262	1.7	1.3-2.0		531	1.8	1.6-2.0
30-44	226	1.8	1.6-2.0		275	2.0	1.8-2.2		501	1.9	1.7-2.1
45-69	146	1.8	1.3-2.4		189	1.7	1.4-2.1		335	1.8	1.4-2.2
18-69	641	1.8	1.7-2.0		726	1.8	1.6-1.9		1367	1.8	1.7-1.9

Table 56 shows that the mean number of days vegetables were consumed in a typical week was 2.5 days (95% CI = 2.3-2.7).

There were no statistically significant differences between men and women and between the three age groups.

Table 56. Mean number of days vegetables were consumed in a typical week

		Mean	number of da	ays	vegetable	es consume	d in a typical v	ve	ek		
		Men				Women				Both sexe	es
Age group (years)	n	Mean number of days	95% CI		n	Mean- number of days	95% CI		n	Mean number of days	95% CI
18-29	267	2.4	2.0-2.7		260	2.3	2.0-2.7		527	2.4	2.1-2.6
30-44	226	2.5	2.0-3.1		274	2.9	2.5-3.4		500	2.7	2.3-3.2
45-69	146	2.4	1.9-2.9		188	2.4	2.1-2.8		334	2.4	2.1-2.7
18-69	639	2.4	2.1-2.8		722	2.5	2.3-2.8		1361	2.5	2.3-2.7

Table 57 shows that the mean number of servings of fruit and/or vegetables consumed on average per day was 1.2 (95% CI = 1.1-1.4). There were no statistically significant differences between men and women and between the three age groups in terms of the mean number of servings of fruit and/or vegetables consumed on average per day.

Table 57. Mean number of servings of fruit and/or vegetables on average per day

		Mean num	ber of serving	s of	f fruit a	nd/or vegetal	oles on avera	ge	per day	/	
		Men				Women				Both sexe	es
Age group (years)	n	Mean number of servings	95% CI		n	Mean- number of servings	95% CI		n	Mean number of servings	95% CI
18-29	267	1.2	1.0-1.5		261	1.1	0.8-1.4		528	1.1	0.9-1.4
30-44	226	1.3	1.0-1.6		275	1.5	1.2-1.9		501	1.4	1.2-1.7
45-69	147	1.2	0.8-1.6		190	1.1	0.8-1.3		337	1.1	0.9-1.4
18-69	640	1.2	1.1-1.4		726	1.2	1.0-1.4		1366	1.2	1.1-1.4

Table 58 shows that overall, 61.3% (95% CI = 57.7-65.0) did not consume any fruit and/or vegetables; 27.2% (95% CI = 23.3-31.2) consumed 1-2 servings; 6.7% (95% CI = 4.8-8.6) consumed 3-4 servings; and 4.7% (95% CI = 3.3-6.1) consumed more than 5 servings on average per day.

There were no statistically significant differences between the three age groups and between men and women. For details on the number of fruit and/or vegetable servings consumed by men and women, please see Appendix 2.

Table 58. Percentage who consumed the specified number of servings of fruit and/or vegetables on average per day, both sexes combined

	Per	centage havir	ıg given num	nbers of servin	gs of fruit ar	nd/or vegetab	es on averaç	ge per day	
٨٠٠					Both sexes	S			
Age group (years)	n	% no fruit and/or veg- etables	95% CI	% 1-2 serv- ings	95% CI	% 3-4 serv- ings	95% CI	% ≥5 serv- ings	95% CI
18-29	528	63.7	59.9-67.4	25.4	20.7-30.1	6.6	3.0-10.3	4.3	2.0-6.7
30-44	501	57.4	51.0-63.8	30.6	25.7-35.5	6.1	3.8-8.5	5.9	3.5-8.2
45-69	337	62.6	55.6-69.6	25.8	21.8-29.8	7.7	4.5-10.9	3.9	1.2-6.7
18-69	1366	61.3	57.7-65.0	27.2	23.3-31.2	6.7	4.8-8.6	4.7	3.3-6.1

Table 59 shows that overall, 95.3% (95% CI = 93.9-96.7) consumed less than five servings of fruit and/or vegetables per day.

There were no statistically significant differences between men and women and between the three age groups.

Table 59. Percentage who consumed less than five servings of fruit and/or vegetables on average per day

		Less than	five servings	s of	f fruit and	or vegeta	bles on averag	e p	er day		
		Men				Wome	n			Both sex	es
Age group (years)	n	% < five servings per day	95% CI		n	% < five serv- ings per day	95% CI		n	% < five servings per day	95% CI
18-29	267	94.8	91.8-97.7		261	96.6	94.3-98.8		528	95.7	93.3-98.0
30-44	226	95.1	92.4-97.9		275	93.1	89.4-96.8		501	94.1	91.8-96.5
45-69	147	93.9	89.5-98.3		190	97.9	95.7-100.0		337	96.1	93.3-98.8
18-69	640	94.7	92.9-96.5		726	95.8	94.3-97.3		1366	95.3	93.9-96.7

4.6. Dietary salt

WHO recommends less than 5 g of salt (approximately 1 teaspoon) per day to reduce risk of high blood pressure and consequently risk of heart disease and stroke. Respondents were asked how much and how often they added salt or salty sauce, how much salty processed food they consumed, their knowledge of salt and its health consequences, and actions they have taken to control salt intake.

Table 60 shows that overall, 53.8% (95% CI = 50.2-57.4) of the population always or often added salt before eating or when eating -51.7% (95% CI = 47.6-55.8) of men and 55.8% (95% CI = 50.8-60.7) of women.

Nauruans aged 18-29 (60.4%, 95% CI = 56.1-64.7) were more likely to add salt always or often before or when eating compared to those aged 30-44 years (49.9%, 95% CI = 44.6-55.2) and those aged 45-69 (47.5%, 95% CI = 42.7-52.3). Younger men aged 18-29 were also more likely to add salt always or often before eating or when eating (60.9%, 95% CI = 55.0-66.7) compared to older men aged 45-69 (40.0%, 95% CI = 34.8-45.2). There was no statistically significant difference between men and women.

Table 60. Percentage who added salt always or often before eating or when eating

		A	dded salt alwa	ys	or often b	efore eating	or when eatir	ng			
Age group		Men				Women				Both sex	ces
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	271	60.9	55.0-66.7		265	60.0	54.6-65.4		536	60.4	56.1-64.7
30-44	229	48.0	40.6-55.5		276	51.8	45.4-58.2		505	49.9	44.6-55.2
45-69	150	40.0	34.8-45.2		192	53.6	45.3-62.0		342	47.5	42.7-52.3
18-69	650	51.7	47.6-55.8		733	55.8	50.8-60.7		1383	53.8	50.2-57.4

Table 61 shows that overall, 65.4% (95% CI = 60.5-70.3) always or often added salt when cooking or preparing food at home. There were no statistically significant differences between men and women and between the three age groups.

Table 61. Percentage who added salt always or often when cooking or preparing food at home

		Added s	salt always or o	fte	en when c	ooking or p	reparing food	at	home		
Age group		Men				Women				Both sex	kes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	259	66.8	61.8-71.8		262	71.8	63.6-80.0		521	69.4	63.9-74.9
30-44	226	60.6	53.3-68.0		273	61.9	53.2-70.6		499	61.2	55.2-67.3
45-69	147	61.9	54.3-69.5		193	65.8	57.1-74.5		340	64.1	57.0-71.1
18-69	632	63.5	60.5-66.4		728	67.1	60.1-74.2		1360	65.4	60.5-70.3

Table 62 shows that overall, 33.5% (95% CI = 30.2-36.8) always or often consumed processed food high in salt – 33.7% (95% CI = 29.5-38.0) of men and 33.2% (95% CI = 28.4-38.1) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 62. Percentage who always or often consumed processed food high in salt

		F	Always or ofter	n co	onsumed	processed for	ood high in sa	lt			
Age group		Men				Women				Both sex	kes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	271	36.2	29.1-43.2		266	40.6	34.4-46.8		537	38.5	33.0-43.9
30-44	229	34.5	26.0-43.0		276	30.4	25.2-35.6		505	32.5	28.3-36.8
45-69	150	28.0	18.1-37.9		193	24.4	16.9-31.8		343	26.0	18.4-33.6
18-69	650	33.7	29.5-38.0		735	33.2	28.4-38.1		1385	33.5	30.2-36.8

Table 63 shows that overall, 34.9% (95% CI = 30.6-39.2) thought that they consumed far too much or too much salt – 33.1% (95% CI = 28.3-38.0) among men and 36.6% (95% CI = 31.6-41.6) among women.

A significantly higher proportion of Nauruans aged 18-29 thought that they consumed far too much or too much salt (40.4%, 95% CI = 34.2-46.7) compared to those aged 45-69 (26.8%, 95% CI = 20.0-33.7).

There were no statistically significant differences between men and women.

Table 63. Percentage who thought they consumed far too much or too much salt

			Thought they	/ consume	d far too	much or too much	salt		
•		M	en		Won	nen		Both se	exes
Age group (years)	n	%	95% CI	n	%	95% CI	n	%	95% CI
18-29	258	40.3	32.2-48.5	254	40.6	32.0-49.1	512	40.4	34.2-46.7
30-44	218	31.2	25.5-36.9	267	36.7	31.3-42.1	485	33.9	29.4-38.4
45-69	145	22.8	13.9-31.6	193	30.1	22.9-37.2	338	26.8	20.0-33.7
18-69	621	33.1	28.3-38.0	714	36.6	31.6-41.6	1335	34.9	30.6-39.2

Table 64 shows that overall, 13.6% (95% CI = 10.5-16.7) reported that they consumed far too much salt and 21.3% (95% CI = 18.9-23.8) reported that they consumed too much salt. About half (51.1%, 95% CI = 46.6-55.7) reported that they consumed just the right amount of salt, 9.3% (95% CI = 7.2-11.4) that they consumed too little and 4.6% (95% CI = 3.2-6.1) consumed far too little.

Nauruans aged 45-69 were more likely to report consuming far too little salt (12.7%, 95% CI = 9.7-15.7) compared to those aged 18-29 (6.2%, 95% CI = 4.3-8.1).

There were no statistically significant differences between the three age groups for the other categories and between men and women. For more details on what men and women reported on the amount of salt they consumed, please see Appendix 2.

Table 64. Percentage who self-reported how much salt they consumed, both sexes combined

				Self-ı	reported qua	antity of sa	lt consumed	l			
						Both sea	xes				
Age group (years)	n	% Far too much	95% CI	% Too much	95% CI	% Just the right amount	95% CI	% Too little	95% CI	% Far too little	95% CI
18-29	512	16.6	10.8-22.5	23.8	20.8-26.8	50.0	43.2-56.8	6.2	4.3-8.1	3.3	2.0-4.7
30-44	485	12.4	9.6-15.2	21.5	17.3-25.7	50.7	45.3-56.0	10.7	6.8-14.6	4.7	2.4-7.0
45-69	338	10.0	5.8-14.2	16.8	10.6-23.0	53.7	47.3-60.0	12.7	9.7-15.7	6.8	3.4-10.2
18-69	1335	13.6	10.5-16.7	21.3	18.9-23.8	51.1	46.6-55.7	9.3	7.2-11.4	4.6	3.2-6.1

Table 65 shows that overall, 72.7% (95% CI = 68.7-76.6) stated that lowering salt in diet was very important, 14.9% (95% CI = 12.7-17.1) as somewhat important and 12.4% (95% CI = 9.5-15.4) as not at all important.

There were no statistically significant differences between the three age groups and between men and women. For more details on the responses of men and women, please see Appendix 2.

Table 65. Percentage who stated the different importance of lowering salt in diet, both sexes combined

		Perce	eived importance	e of lowering salt	in diet		
A 010 01101110				Both sexes			
Age group (years)	n	% Very impor- tant	95% CI	% Somewhat important	95% CI	% Not at all important	95% CI
18-29	461	71.5	66.6-76.5	15.2	12.7-17.8	13.2	8.2-18.3
30-44	463	70.3	64.4-76.1	16.9	11.8-21.9	12.9	9.6-16.1
45-69	323	77.7	73.1-82.4	11.8	7.3-16.3	10.5	7.0-13.9
18-69	1247	72.7	68.7-76.6	14.9	12.7-17.1	12.4	9.5-15.4

Table 66 shows that overall, 82.5% (95% CI = 79.2-85.7) thought that consuming too much salt could cause serious health problems.

Women were significantly more likely than men to think consuming too much salt could cause serious health problems - 78.6% (95% CI = 74.0-83.1) of men and 86.1% (95% CI = 83.4-88.8) of women.

There was no statistically significant difference between the three age groups.

Table 66. Percentage who thought that consuming too much salt could cause serious health problems

	Т	hought th	at consuming	to	much sa	lt could cau	se serious heal	th problen	า	
Age group		Men				Women			Both sex	xes
(years)	n	%	95% CI		n	%	95% CI	n	%	95% CI
18-29	271	77.1	68.8-85.4		266	85.7	81.4-90.1	537	81.6	76.8-86.3
30-44	228	79.4	73.7-85.1		276	88.0	84.6-91.5	504	83.6	79.4-87.9
45-69	150	80.0	75.1-84.9		193	84.5	78.4-90.5	343	82.4	78.4-86.5
18-69	649	78.6	74.0-83.1		735	86.1	83.4-88.8	1384	82.5	79.2-85.7

Table 67 shows that overall, 53.1% (95% CI = 48.1-58.2) limited consumption of processed foods to control salt intake – 51.8% (95% CI = 47.9-55.7) among men and 54.4% (95% CI = 46.8-62.0) among women.

Nauruans aged 45-69 were more likely to limit consumption of processed foods to control salt intake (60.4%, 95% CI = 54.0-66.7) compared to those aged 18-29 (46.5%, 95% CI = 40.2-52.8). Among men, those aged 45-69 (61.3%, 95% CI = 52.2-70.4) were more likely than those aged 18-29 (43.5%, 95% CI = 35.8-51.2) to limit consumption of processed foods to control salt intake. There were no statistically significant differences between men and women.

Table 67. Percentage who limited consumption of processed foods to control salt intake

			Limit co	ons	sumption	of processe	d foods			
Age group		Men				Women			Both sex	es
(years)	n	%	95% CI		n	%	95% CI	n	%	95% CI
18-29	271	43.5	35.8-51.2		266	49.2	40.6-57.9	537	46.5	40.2-52.8
30-44	228	55.7	45.6-65.9		276	57.2	49.8-64.7	504	56.5	48.8-64.1
45-69	150	61.3	52.2-70.4		193	59.6	50.6-68.6	343	60.4	54.0-66.7
18-69	649	51.8	47.9-55.7		735	54.4	46.8-62.0	1384	53.1	48.1-58.2

Table 68 shows that overall, 20.9% (95% CI = 17.5-24.4) looked at the salt or sodium content on food labels – 21.2% (95% CI = 17.3-25.1) of men and 20.7% (95% CI = 16.7-24.7) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 68. Percentage who looked at the salt or sodium content on food labels

			Looked at the	sa	lt or sodiu	ım content	on food labels	;				
Age group		Men				Women				Both sex	xes	
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI	
18-29	271	17.3	11.8-22.9		266	18.0	13.6-22.5		537	17.7	13.4-22.1	
30-44	228	23.7	19.4-28.0		276	21.4	17.7-25.0		504	22.6	19.6-25.5	
45-69	150	24.7	15.9-33.4		193	24.4	17.5-31.2		343	24.5	18.9-30.1	
18-69	649	21.2	17.3-25.1		735	20.7	16.7-24.7		1384	20.9	17.5-24.4	

Table 69 shows that overall, 24.4% (95% CI = 21.8-27.0) bought low salt or sodium alternatives – 24.1% (95% CI = 20.1-28.2) of men and 24.6% (95% CI = 22.0-27.3) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 69. Percentage who bought low salt or sodium alternatives

			Bough	it l	ow salt/so	odium alterr	natives			
Age group		Men				Women			Both sex	es
(years)	n	%	95% CI		n	%	95% CI	n	%	95% CI
18-29	271	19.2	13.9-24.5		266	23.3	18.5-28.2	537	21.3	17.1-25.5
30-44	228	30.3	22.4-38.1		276	22.5	17.8-27.1	504	26.4	22.0-30.9
45-69	150	24.0	16.6-31.4		193	29.5	21.8-37.3	343	27.0	20.9-33.2
18-69	649	24.1	20.1-28.2		735	24.6	22.0-27.3	1384	24.4	21.8-27.0

Table 70 shows that overall, 43.2% (95% CI = 40.7-45.7) used spices other than salt when cooking – 43.7% (95% CI = 40.0-47.4) of men and 42.7% (95% CI = 39.5-45.8) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 70. Percentage who used spices other than salt when cooking

			Used spic	ces	other tha	an salt wher	cooking				
Age group		Men				Women			Both sex	h sexes	
(years)	n	%	95% CI		n	%	95% CI	n	%	95% CI	
18-29	271	39.9	33.3-46.4		266	36.8	30.2-43.4	537	38.3	33.7-42.9	
30-44	228	46.5	39.5-53.5		276	47.8	42.0-53.7	504	47.1	42.1-52.2	
45-69	150	46.7	38.0-55.3		193	46.1	39.7-52.6	343	46.4	41.1-51.6	
18-69	649	43.7	40.0-47.4		735	42.7	39.5-45.8	1384	43.2	40.7-45.7	

Table 71 shows that overall, 42.3% (95% CI = 39.4-45.1) avoided eating foods prepared outside a home – 41.8%(95% CI = 37.6-46.0) of men and 42.7% (95% CI = 40.0-45.3) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 71 Percentage who avoided eating foods prepared outside a home

			Avoided eatir	ng	foods pre	pared outsi	de of a home			
Age group		Men				Women			Both sex	es
(years)	n	%	95% CI		n	%	95% CI	n	%	95% CI
18-29	271	36.2	29.4-42.9		266	39.9	33.8-45.9	537	38.1	33.2-43.0
30-44	228	46.9	38.9-55.0		276	44.6	38.8-50.4	504	45.8	39.2-52.3
45-69	150	44.7	36.2-53.2		193	45.1	38.5-51.7	343	44.9	39.4-50.4
18-69	649	41.8	37.6-46.0		735	42.7	40.0-45.3	1384	42.3	39.4-45.1

Table 72 shows that overall, 35.9% (95% CI = 30.7-41.1) have done other things specifically to control salt intake -37.8% (95% CI = 32.2-43.3) of men and 34.2% (95% CI = 28.6-39.7) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 72. Percentage who have done other things specifically to control salt intake

		D	id other thing	S S	pecificall	y to control	your salt inta	ke			
Age group		Men				Women				Both sex	es
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	271	37.3	28.0-46.5		266	29.7	23.4-36.0		537	33.3	26.5-40.2
30-44	228	39.0	32.0-46.1		276	37.7	28.8-46.6		504	38.4	30.8-45.9
45-69	150	36.7	28.2-45.1		193	37.3	29.7-44.9		343	37.0	30.2-43.9
18-69	649	37.8	32.2-43.3		735	34.2	28.6-39.7		1384	35.9	30.7-41.1

Table 73 shows that on average, Nauruans ate 3.3 (95% CI = 3.0-3.5) meals outside a home – 3.7 (95% CI =3.4-4.0) among men and 2.9 (95% CI = 2.5-3.2) among women. Younger Nauruans aged 18-29 ate more meals outside a home (3.6, 95% CI = 3.2-4.0) than those aged 45-69 (2.5, 95% CI = 2.1-2.9). There was no statistically significant difference between men and women.

Table 73. Mean number of meals eaten outside a home

			Mean num	be	r of meals	eaten outs	ide a home			
Age group		Men				Women			Both sexe	es
(years)	n	Mean	95% CI		n	Mean	95% CI	n	Mean	95% CI
18-29	269	4.0	3.4-4.5		264	3.2	2.7-3.7	533	3.6	3.2-4.0
30-44	227	3.8	3.2-4.4		273	3.0	2.5-3.5	500	3.4	3.0-3.9
45-69	147	2.9	2.4-3.5		190	2.2	1.6-2.7	337	2.5	2.1-2.9
18-69	643	3.7	3.4-4.0		727	2.9	2.5-3.2	1370	3.3	3.0-3.5

4.7. Dietary fat

WHO recommends reducing total fat intake to prevent unhealthy weight gain. Fat intake can be reduced by removing fatty part of the meat, using vegetable oil, boiling, steaming or baking, avoiding eating processed food with trans-fat, and limiting consumption of food with high amounts of saturated fats. Respondents were asked what type of oil or fat they used for preparing meals.

Table 74 shows that majority of the households surveyed (88.3%, 95% CI = 85.3-91.4) used vegetable oil, 0.2% (95% CI = 0.0-0.4) used lard, 1.8% (95% CI = 0.8-2.8) used butter, 0.9% (95% CI = 0.4-1.5) used margarine, and 5.0% (95% CI = 2.9-7.1) used none.

Table 74. Type of oil or fat most often used for meal preparation in household

	Type of oil o	r fat most o	ften used	for meal	preparation	in house	hold	
n (house-holds)	% Vegetable oil	95% CI	% Lard	95% CI	% Butter	95% CI	% Margarine	95% CI
40	88.3	85.3-91.4	0.2	0.0-0.4	1.8	0.8-2.8	0.9	0.4-1.5

Type of oil or fat	most often u	sed for me	al prepar	ation in								
	household (continued)											
40	-	-	5.0	2.9-7.1								

4.8. Sugar consumption

WHO recommends reducing sugar intake to prevent unhealthy weight gain and risk of dental caries. Sugar intake can be reduced by limiting consumption of food and drinks containing high amounts of sugar, and eating fresh fruits and vegetables as snacks. In this section, survey respondents were asked how often and how many sugary drinks were consumed as well as how much sugar was added. Sugary drinks include fizzy drinks (excluding pure unsweetened fruit juice), cordials or drink mixes, milo and homemade drinks with added sugar; and one serving of sugary drink refers to one can of drink or one large glass.

Table 75 shows that Nauruans consumed a mean of 4.1 servings (95% CI = 3.6-4.6) of sugary drinks per day. There were no statistically significant differences between men and women and between the three age groups.

Table 75. Mean number of servings of sugary drinks consumed per day

		Mean	number of se	erv	ings of su	gary drinks	consumed pe	er c	lay		
Age group		Men				Women				Both sexes	S
(years)	n	Mean	95% CI		n	Mean	95% CI		n	Mean	95% CI
18-29	257	4.4	3.7-5.0		251	4.4	3.2-5.7		508	4.4	3.7-5.1
30-44	220	3.3	2.7-4.0		260	4.3	3.4-5.1		480	3.8	3.3-4.3
45-69	145	4.0	2.8-5.2		184	4.1	3.2-5.1		329	4.1	3.2-4.9
18-69	622	3.9	3.4-4.4		695	4.3	3.4-5.2		1317	4.1	3.6-4.6

Table 76 shows that Nauruans added 5.4 teaspoons (95% CI = 5.4) of sugar on average to sugary drinks (milo, tea or coffee – 6.2 teaspoons (95% CI = 2.5-4.4) among men and 4.6 teaspoons (95% CI = 1.6-7.7) among women. There were no statistically significant differences between men and women and between the three age groups.

Table 76. Mean number of teaspoons of sugar added to drinks per day

		<u> </u>									
		Me	an number (of t	easpoons	s of sugar add	led to a per o	lay			
A		Men				Women				Both sexes	
Age group (years)	n	Mean # of teaspoons	95% CI		n	Mean # of teaspoons	95% CI		n	Mean # of teaspoons	95% CI
18-29	224	4.2	1.3-7.1		232	6.0	2.5-9.4		456	5.1	2.0-8.3
30-44	196	4.7	1.3-8.2		243	6.9	1.8-12.1		439	5.8	1.6-10.1
45-69	129	5.3	2.2-8.5		164	5.5	1.5-9.5		293	5.4	1.9-8.9
18-69	549	4.6	1.6-7.7		639	6.2	2.2-10.2		1188	5.4	1.9-9.0

4.9. Injury

Table 77 shows that overall, 10.8% (95% CI = 9.5-12.1) had been involved in a road traffic crash in the past 12 months. A significantly higher proportion of men than women had been involved in a road traffic crash in the past 12 months – 15.4% (95% CI = 13.6-17.3) among men and 6.5% (95% CI = 4.4-8.5) among women. Nauruans aged 18-29 were more likely to have been involved in a road traffic crash in the past 12 months (16.5%, 95% CI = 13.4-19.5) than those aged 30-44 years (8.1%, 95% CI = 5.5-10.7) and 45-69 (4.4%, 95% CI = 2.1-6.7).

Table 77. Percentage who had been involved in a road traffic crash in the past 12 months

	Had been involved in a road traffic crash in the past 12 months														
		Men				Women			Both sexes						
Age group (years)	n	% In- volved in road traf- fic crash	95% CI		n	% Involved in road traffic crash	95% CI		n	% In- volved in road traf- fic crash	95% CI				
18-29	271	24.0	19.6-28.4		265	9.4	5.4-13.5		536	16.5	13.4-19.5				
30-44	228	11.4	7.1-15.7		276	4.7	2.1-7.3		504	8.1	5.5-10.7				
45-69	149	5.4	1.0-9.8		193	3.6	0.6-6.7		342	4.4	2.1-6.7				
18-69	648	15.4	13.6-17.3		734	6.5	4.4-8.5		1382	10.8	9.5-12.1				

Table 78 shows that among those who had been involved in a road traffic crash in the past 12 months, 48.9% (95% CI = 39.0-58.7) were seriously injured requiring medical attention – 51.0% (95% CI = 38.9-63.2) among men and 43.9% (95% CI = 27.3-60.6) among women.

There were no statistically significant differences between men and women and between the three age groups.

Table 78. Percentage who were seriously injured as a result of the road traffic crash among those involved

		Were seriou	sly injured as	s a	result of t	he road traffic	crash among	g th	nose invo	lved				
Men Women Both sexes														
Age group (years)	n	% Seriously injured	95% CI		n	% Seriously injured	95% CI		n	% Seriously injured	95% CI			
18-69	98	51.0	38.9-63.2		44	43.9	27.3-60.6		142	48.9	39.0-58.7			

Table 79 shows that overall, 81.8% (95% CI = 79.1-84.4) drove a motorized vehicle after having alcoholic drinks.

A significantly higher proportion of women drove under the effects of alcohol than men – 90.7% (95% CI = 88.7-92.6) of women and 72.3% (95% CI = 68.1-76.5) of men; and a significantly higher proportion of Nauruans aged 45-69 drove under the effects of alcohol (91.1%, 95% CI = 88.8-93.3) than those aged 18-29 (77.9%, 95% CI = 73.3-82.5) and 30-44 years (80.0%, 95% CI = 74.9-85.0).

Table 79. Percentage who drove a motorized vehicle under the effects of alcohol

	Drove a motorized vehicle under the effects of alcohol														
		Men				Women Both se									
Age group		% Drove				% Drove				% Drove					
(years)	n	after	95% CI		n	after drink-	95% CI		n	after	95% CI				
		drinking				ing				drinking					
18-29	271	66.8	61.0-72.6		265	88.3	84.6-92.0		536	77.9	73.3-82.5				
30-44	228	71.5	63.9-79.1		276	88.8	84.5-93.0		504	80.0	74.9-85.0				
45-69	150	84.0	78.7-89.3		193	96.9	94.2-99.6		343	91.1	88.8-93.3				
18-69	649	72.3	68.1-76.5		734	90.7	88.7-92.6		1383	81.8	79.1-84.4				

4.10. Reproductive health

Table 80 shows that slightly more than a quarter of Nauruans (26.9%, 95% CI = 23.3-30.4) did not know where to get condoms from -28.0% (95% CI = 22.3-33.6) of men and 25.9% (95% CI = 22.4-29.4) of women.

Among women, those aged 45-69 were more likely to not know where to get condoms from (32.2%, 95% CI = 24.3-40.1) than those aged 30-44 years (19.4%, 95% CI = 15.4-23.3).

Generally, there were no statistically significant differences between men and women and between the three age groups.

Table 80. Percentage who did not know where to get condoms from

	Not knowing where to get condoms from														
A = 0 = 110		Men				Women			Both sexes						
Age group (years)	n	% Not	95% CI		n	% Not	95% CI		n	% Not	95% CI				
(ycars)	=	knowing	93% CI		- 11	knowing	93% CI		n	knowing	93% CI				
18-29	239	29.3	21.6-37.0		248	27.0	20.7-33.3		487	28.1	23.3-32.9				
30-44	204	26.5	19.2-33.7		253	19.4	15.4-23.3		457	22.9	19.1-26.8				
45-69	126	27.8	18.8-36.8		174	32.2	24.3-40.1		300	30.3	24.0-36.5				
18-69	569	28.0	22.3-33.6		675	25.9	22.4-29.4		1244	26.9	23.3-30.4				

4.11. Physical activity

Introduction

A population's physical activity (or inactivity) can be described in different ways. The two most common ways used for analysing Global Physical Activity Questionnaire (GPAQ) data are:

- 1) to estimate a population's mean or median physical activity using a continuous indicator such as METminutes per week or time spent in physical activity; and
- 2) to classify the population into specific groups by setting cut-off points for a specific amount of physical activity.

Continuous indicator: Metabolic Equivalent (MET)

METs are commonly used to express the intensity of physical activities; and applying MET values to activity levels allows us to calculate total physical activity. MET is the ratio of a person's working metabolic rate relative to the resting metabolic rate. One MET is defined as the energy cost of sitting quietly, and is equivalent to a caloric consumption of 1 kcal/kg/hour. Guidelines have been adopted for the analysis of GPAQ data: It is estimated that, compared to sitting quietly, a person's caloric consumption is four times as high when being moderately active, and eight times as high when being vigorously active. For the calculation of a person's total physical activity using GPAQ data, the following MET values are used:

Domain	MET value
Work	■ Moderate MET value = 4.0
	■ Vigorous MET value = 8.0
Transport	Cycling and walking MET value = 4.0
Recreation	■ Moderate MET value = 4.0
	■ Vigorous MET value = 8.0

Categorical indicator: WHO global recommendations on physical activity for health

Calculation of the recommended amount of physical activity for health takes into account the total time spent in physical activity during a typical week and the intensity of the physical activity.

Throughout the week, including activity for work, during transport and leisure time, adults should do at least:

- 150 minutes of moderate-intensity physical activity OR
- 75 minutes of vigorous-intensity physical activity OR
- An equivalent combination of moderate- and vigorous-intensity physical activity achieving at least 600 MET-minutes.

The three levels of physical activity for classifying populations were low, moderate and high. The criteria for these levels are shown below.

	High	Moderate	Low
	erson who meets the following eria: Vigorous-intensity activity on at least 3 days achieving a minimum of at least 1,500 MET-minutes/week	A person who does not meet the criteria for the "high" category but meets the following: 3 or more days of vigorous-intensity activity of at least 20 minutes per day	A person who does not meet any of the abovementioned criteria.
OF	₹	OR	
•	7 or more days of any combination of walking, moderate- or vigorous-intensity activi- ties achieving a minimum of at least 3,000 MET-minutes per week	 5 or more days of moderate- intensity activity or walking of at least 30 minutes per day OR	
		 5 or more days of any combi- nation of walking, moderate- or vigorous-intensity activi- ties achieving a minimum of at least 600 MET-minutes per week. 	

Table 81 shows that overall, 39.8% (95% CI = 34.8-44.9) of Nauruans did not meet the WHO recommendations on physical activity for health. A significantly higher proportion of women (49.8%, 95% CI = 44.3-55.4) than men (29.0%, 95% CI = 22.6-35.3) did not meet the recommendations.

A significantly higher proportion of Nauruans aged 45-69 (51.5%, 95% CI = 41.3-61.6) did not meet the WHO recommendations on physical activity for health than those aged 30-44 (35.4%, 95% CI = 30.6-40.1).

Among men, the proportion who did not meet the recommendations increased with age -15.8% (95% CI = 8.7-22.9) among 18-29 year olds, 31.2% (95% CI = 25.2-37.3) among 30-44 year olds and 50.3% (95% CI = 37.8-62.9) among 45-69 year olds. Among women, a higher proportion of those aged 18-29 did not meet the recommendations (55.5%, 95% CI = 49.7-61.3) compared to those aged 30-44 (39.8%, 95% CI = 34.1-45.5).

Table 81. Percentage who did not meet WHO recommendations on physical activity for health

	Not meeting WHO recommendations on physical activity for health														
		Men				Women			Both sexes						
Age group		% not				% not				% not					
(years)	n	meeting	95% CI		n	meeting	95% CI		n	meeting	95% CI				
		recs				recs				recs					
18-29	260	15.8	8.7-22.9		263	55.5	49.7-61.3		523	36.7	31.5-41.8				
30-44	221	31.2	25.2-37.3		264	39.8	34.1-45.5		485	35.4	30.6-40.1				
45-69	145	50.3	37.8-62.9		189	52.4	40.4-64.3		334	51.5	41.3-61.6				
18-69	626	29.0	22.6-35.3		716	49.8	44.3-55.4		1342	39.8	34.8-44.9				

Table 82 shows that on average, Nauruans engaged in 147.9 minutes of total physical activity per day (95% CI = 123.5-172.3).

Men engaged in significantly more physical activity on average per day (194.8 minutes, 95% CI = 157.2-232.4) than women (104.5 minutes, 95% CI = 86.8-122.2).

Nauruans aged 45-69 engaged in significantly fewer minutes of total physical activity per day (95.8 minutes, 95% CI = 72.9-118.7) than those aged 18-29 (160.8 minutes, 95% CI = 130.7-190.9) and 30-44 (169.4 minutes, 95% CI = 137.0-201.7).

Table 82. Mean minutes of total physical activity on average per day

	Mean minutes of total physical activity on average per day														
Λ		Men			Women Both sexes										
Age group (years)	n	Mean minutes	95% CI		n	Mean minutes	95% CI		n	Mean minutes	95% CI				
18-29	260	239.2	193.1-285.3		263	90.0	64.7-115.4		523	160.8	130.7-190.9				
30-44	221	206.4	155.2-257.6		264	130.4	101.8-159.0		485	169.4	137.0-201.7				
45-69	145	93.2	59.1-127.2		189	98.0	72.8-123.1		334	95.8	72.9-118.7				
18-69	626	194.8	157.2-232.4		716	104.5	86.8-122.2		1342	147.9	123.5-172.3				

Table 83 shows that the median minutes of total physical activity Nauruans engaged in per day was 51.4 minutes. The median minutes for men was nearly five times more than women (98.6 compared to 20.0 minutes). Those aged 18-29 engaged in the most amount of physical activity in terms of duration followed by the 30-44 year olds then 45-69 year olds.

Table 83. Median minutes of total physical activity on average per day

	Median minutes of total physical activity on average per day														
		Men				Wome	en		Both sexes						
Age group (years)	n	Median minutes	Inter-quartile range (P25-P75)		n	Median minutes	Inter-quar- tile range (P25-P75)		n	Median minutes	Inter-quar- tile range (P25-P75)				
18-29	260	154.3	51.4-377.1		263	12.9	0-107.1		523	68.6	1.4-220.7				
30-44	221	90.0	8.6-317.1		264	47.1	0-191.4		485	64.3	2.9-244.3				
45-69	145	17.1	17.1-98.6		189	17.1	0-120.0		334	17.1	0-110.7				
18-69	626	98.6	8.6-300.0		716	20.0	0-131.4		1342	51.4	0-210.0				

Table 84 shows that on average, Nauruans engaged in 96.5 minutes of work-related physical activity per day (95% CI = 78.3-114.7).

Men engaged in more work-related physical activity (125.3 minutes, 95% CI = 99.3-151.3) compared to women (69.8 minutes, 95% CI = 56.5-83.1). Among men, those aged 45-69 engaged in significantly fewer minutes of work-related physical activity (66.4 minutes, 95% CI: 41.2-91.6) than those aged 18-29 (139.0 minutes, 95% CI = 108.1-170.0). Among women, there was no statistically significant difference between the three age groups.

Nauruans aged 30-44 engaged in more work-related physical activity on average per day (120.0 minutes, 95% CI = 93.0-147.0) than those aged 45-69 (67.2 minutes, 95% CI = 51.4-83.1).

Table 84. Mean minutes of work-related physical activity on average per day

	Mean minutes of work-related physical activity on average per day														
		Men				Wome	n		Both sexes						
Age group (years)	n	Mean minutes	95% CI		n	Mean minutes	95% CI		n	Mean minutes	95% CI				
18-29	260	139.0	108.1-170.0		263	55.1	36.8-73.4		523	94.9	73.2-116.7				
30-44	221	146.6	108.1-185.1		264	92.0	69.9-114.2		485	120.0	93.0-147.0				
45-69	145	66.4	41.2-91.6		189	67.9	51.2-84.6		334	67.2	51.4-83.1				
18-69	626	125.3	99.3-151.3		716	69.8	56.5-83.1		1342	96.5	78.3-114.7				

Table 85 shows that on average, Nauruans engaged in 22.3 minutes of transport-related physical activity per day (95% CI = 17.4-27.2) - 26.7 minutes (95% CI = 18.5-34.8) among men and 18.2 minutes (95% CI = 14.4-22.0) among women.

There were no statistically significant differences between men and women and between the three age groups.

Table 85. Mean minutes of transport-related physical activity on average per day

	Mean minutes of transport-related physical activity on average per day													
		Men				Women			Both sexes					
Age group (years)	n	Mean minutes	95% CI		n	Mean minutes	95% CI		n	Mean minutes	95% CI			
18-29	260	32.6	20.2-45.1		263	15.0	8.2-21.8		523	23.4	17.1-29.7			
30-44	221	26.6	16.5-36.7		264	22.5	12.9-32.2		485	24.6	18.0-31.3			
45-69	145	15.5	5.0-26.0		189	18.4	9.2-27.6		334	17.1	9.8-24.5			
18-69	626	26.7	18.5-34.8		716	18.2	14.4-22.0		1342	22.3	17.4-27.2			

Table 86 shows that on average, Nauruans engaged in 29.2 minutes of recreation-related physical activity per day (95% CI = 25.3-33.1).

Men engaged in significantly more recreation-related physical activity (42.8 minutes, 95% CI = 36.8-48.8) than women (16.5 minutes, 95% CI = 11.0-22.1).

The mean minutes of recreation-related physical activity decreased with age -42.5 minutes (95% CI = 36.0-49.0) among 18-29 year olds, 24.8 minutes (95% CI = 19.8-29.8) among 30-44 year olds and 11.5 minutes (95% CI = 5.8-17.1) among 45-69 year olds. This was also the case among men; however, among women, there was no statistically significant difference between the three age groups.

Table 87. Mean minutes of recreation-related physical activity on average per day

	Mean minutes of recreation-related physical activity on average per day														
		Men		Women						es					
Age group (years)	n	Mean minutes	95% CI		n	Mean minutes	95% CI		n	Mean minutes	95% CI				
18-29	260	67.5	59.1-76.0		263	19.9	11.0-28.8		523	42.5	36.0-49.0				
30-44	221	33.2	23.4-43.1		264	15.8	10.3-21.4		485	24.8	19.8-29.8				
45-69	145	11.3	4.8-17.7		189	11.6	3.4-19.9		334	11.5	5.8-17.1				
18-69	626	42.8	36.8-48.8		716	16.5	11.0-22.1		1342	29.2	25.3-33.1				

Table 88 shows that the median minutes of work-related physical activity Nauruans engaged in on average per day was 0. The median minutes for men was 8.6 minutes; 0 minutes for women; and 14.3 minutes for those

aged 30-44.

Table 88. Median minutes of work-related physical activity on average per day

	Median minutes of work-related physical activity on average per day												
		Men				Women	l	Both sexes					
Age group (years)	n	Median minutes	Inter-quar- tile range (P25-P75)		n	Median minutes	Inter-quar- tile range (P25-P75)		n	Median minutes	Inter- quartile range (P25-P75)		
18-29	260	17.1	0-240.0		263	0.0	0-42.9		523	0.0	0.0-120.0		
30-44	221	25.7	0-205.7		264	4.3	0-128.6		485	14.3	0.0-180.0		
45-69	145	0	0-40.0		189	0.0	0-60.0		334	0.0	0.0-42.9		
18-69	626	8.6	0-205.7		716	0.0	0.0-60.0		1342	0.0	0.0-120.0		

Table 89 shows that the median minutes of transport-related physical activity Nauruans engaged in was 0 minutes.

Table 89. Median minutes of transport-related physical activity on average per day

	I	Median min	utes of transpo	rt-r	elated	physical ac	tivity on avera	ge	per day			
		Men				Women Both sexes						
Age group (years)	n	Median minutes	Inter-quartile range (P25-P75)		n	Median- minutes	Inter-quar- tile range (P25-P75)		n	Median minutes	Inter-quar- tile range (P25-P75)	
18-29	260	0	0-21.4		263	0	0-8.6		523	0	0.0-12.9	
30-44	221	0	0.0-20.0		264	0	0.0-10.7		485	0	0.0-14.3	
45-69	145	0	0.0-8.6		189	0	0.0-7		334	0	0.0-10.3	
18-69	626	626 0 0.0-17.1				0	0.0-10.0		1342	0	0.0-12.9	

Table 90 shows that the median minutes of recreation-related physical activity Nauruans engaged in was 0 minutes. The median for men aged 18-29 was 38.6 minutes.

Table 90. Median minutes of recreation-related physical activity on average per day

		Median r	minutes of recre	eatic	on-relate	d physical ac	tivity on avera	ige	per day	/		
		Men		Women					Both sexes			
Age group (years)	n	Median minutes	Inter-quar- tile range (P25-P75)		n	Median minutes	Inter-quar- tile range (P25-P75)		n	Median minutes	Inter-quar- tile range (P25-P75)	
18-29	260	38.6	0.0-102.9		263	0.0	0.0-5.6		523	0.0	0.0-60.0	
30-44	221	0.0	0.0-38.6		264	0.0	0.0-6.4		485	0.0	0.0-17.1	
45-69	145	0.0	0.0-0.0		189	0.0	0.0-0.0		334	0.0	0.0-462.9	
18-69	626	0.0	0.0-64.3		716	0.0	0.0-4.3		1342	0.0	0.0-720.0	

Table 91 shows that overall, 56.3% (95% CI = 49.7-62.9) were classified as having no work-related physical activity.

A significantly lower proportion of Nauruans aged 30-44 (43.8%, 95% CI = 38.2-49.3) than those aged 18-29 (56.3%, 95% CI = 49.7-62.9) and 45-69 (57.8%, 95% CI = 50.3-65.3) were classified as having no work-related physical activity.

Among men, a higher proportion of those aged 45-69 were classified as having no work-related physical activity (59.3%, 95% CI = 50.2-68.5) compared to those aged 30-44 (38.9%, 95% CI = 32.4-45.5). Among women, a higher proportion of those aged 18-29 were classified as having no work-related physical activity (66.2%, 95% CI = 57.0-75.3) than those aged 30-44 (48.9%, 95% CI = 42.0-55.7).

There was no statistically significant difference between men and women.

Table 91. Percentage classified as having no work-related physical activity

	No work-related physical activity													
		Men			Women				Both sexes					
Age group		% no				% no				% no				
(years)	n	activity	95% CI		n	activity	95% CI		n	activity	95% CI			
		at work				at work				at work				
18-29	260	45.4	36.7-54.1		263	66.2	57.0-75.3		523	56.3	49.7-62.9			
30-44	221	38.9	32.4-45.5		264	48.9	42.0-55.7		485	43.8	38.2-49.3			
45-69	145	59.3	50.2-68.5		189	56.6	47.3-66.0		334	57.8	50.3-65.3			
18-69	626	46.3	38.9-53.6		716	58.4	51.8-64.9		523	56.3	49.7-62.9			

Table 92 shows that 55.8% (95% CI = 49.6-62.1) overall were classified as having no transport-related physical activity -53.8% (95% CI = 47.6-60.0) of men and 57.7% (95% CI = 50.6-64.9) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 92. Percentage classified as having no transport-related physical activity

	No transport-related physical activity													
		Men				Women			Both sexes					
Age group (years)	n	% no ac- tivity for transport	95% CI		n	% no ac- tivity for transport	95% CI		n	% no ac- tivity for transport	95% CI			
18-29	260	52.7	45.4-60.0		263	61.6	51.7-71.5		523	57.4	50.3-64.5			
30-44	221	50.2	41.5-59.0		264	57.2	51.6-62.8		485	53.6	48.0-59.2			
45-69	145	61.4	51.2-71.5		189	51.9	40.4-63.3		334	56.1	45.6-66.7			
18-69	626	53.8	47.6-60.0		716	57.7	50.6-64.9		1342	55.8	49.6-62.1			

Table 93 shows that 64.4% (95% CI = 61.4-67.3) overall were classified as having no recreation-related physical activity.

Significantly higher proportion of women (73.3%, 95% CI = 69.9-76.8) than men (54.6%, 95% CI = 50.3-59.0) were classified as having no recreation-related physical activity.

There was a statistically significant difference between the three age groups. The proportion of Nauruans having no recreation-related physical activity increased with age -53.5% (95% CI = 49.3-57.7) of 18-29 year olds, 66.9% (95% CI = 62.4-71.5) of 30-44 year olds and 80.2% (95% CI = 74.5-85.8) of 45-69 year olds.

Table 93. Percentage classified as having no recreation-related physical activity

	No recreation-related physical activity											
		Men				Women			Both sexes			
Age group (years)	n	% no activity at recreation	95% CI		n	% no activity at recreation	95% CI		n	% no activity at recreation	95% CI	
18-29	260	37.3	33.2-41.4		263	68.1	62.5-73.6		523	53.5	49.3-57.7	
30-44	221	61.1	53.1-69.0		264	73.1	68.3-77.9		485	66.9	62.4-71.5	
45-69	145	77.2	66.2-88.3		189	82.5	77.4-87.7		334	80.2	74.5-85.8	
18-69	626	54.6	50.3-59.0		716	73.3	69.9-76.8		1342	64.4	61.4-67.3	

Table 94 shows that for men, work contributed 48.7% (95% CI = 44.8-52.6) to total physical activity, transport to 22.4% (95% CI = 19.5-25.4) and leisure to 28.9% (95% CI = 25.2-32.5).

There were differences between the age groups as to which activity contributed the most and least to total physical activity. Among younger men aged 18-29, work contributed the most to physical activity followed by leisure then transport. Among older men aged 30-44 and 45-69, work followed by transport contributed most to total physical activity then leisure.

Work contributed to a significantly higher proportion of total physical activity for 30-44 year olds (58.0%, 95% CI = 52.4-63.6) compared to 18-29 year olds (41.2%, 95% CI = 36.9-45.4). Leisure contributed to a significantly higher proportion of total physical activity for 18-29 year olds (39.8%, 95% CI = 34.4-45.1) compared to both 30-44 year olds (19.8%, 95% CI = 14.6-24.9) and 45-69 year olds (18.1%, 95% CI = 10.2-26.0). There was no statistically significant difference between the three age groups in terms of the proportion transport contributed to total physical activity.

Table 94. Composition of work, transport and leisure activity to total physical activity for men

	Composition of total physical activity											
				Men								
Age group (years)	n	% Activity from work	95% CI	% Activity for trans- port	95% CI	% Activity during lei- sure time	95% CI					
18-29	231	41.2	36.9-45.4	19.1	15.2-23.0	39.8	34.4-45.1					
30-44	179	58.0	52.4-63.6	22.2	19.5-24.9	19.8	14.6-24.9					
45-69	90	50.1	44.0-56.3	31.8	22.9-40.7	18.1	10.2-26.0					
18-69	500 48.7 44.8-52.6 22.4 19.5-25.4 28.9 25.2-32.5											

Table 95 shows that for women, work contributed 49.7% (95% CI = 44.2-55.1) to total physical activity, transport to 30.9% (95% CI = 27.3-34.6) and leisure to 19.4% (95% CI = 14.8-24.0).

Work contributed to a significantly higher proportion of total physical activity for 30-44 year olds (59.1%, 95%) CI = 53.3-64.8) than 18-29 year olds (41.2%, 95% CI = 33.2-49.2) and 45-69 year olds (51.1%, 95% CI = 44.0-58.1). Transport contributed to a significantly higher proportion of total physical activity for 45-69 year olds (37.4%, 95% CI = 32.5-42.2) than 30-44 year olds (25.6%, 95% CI = 21.6-29.6). Leisure contributed to a significantly higher proportion of total physical activity for 18-29 year olds (27.9%, 95% CI = 21.9-33.8) than for 30-44 year olds (15.3%, 95% CI = 11.6-19.0) and 45-69 year olds (11.6%, 95% CI = 5.0-18.2).

Table 95 Composition of work, transport and leisure activity to total physical activity for women

	Composition of total physical activity											
				Women								
Age group (years)	n	% Activity from work	95% CI	% Activity for transport	95% CI	% Activity during leisure time	95% CI					
18-29	168	41.2	33.2-49.2	31.0	24.5-37.4	27.9	21.9-33.8					
30-44	191	59.1	53.3-64.8	25.6	21.6-29.6	15.3	11.6-19.0					
45-69	135	51.1	44.0-58.1	37.4	32.5-42.2	11.6	5.0-18.2					
18-69	494	14.8-24.0										

Table 96 shows that for Nauruans, work contributed 49.2% (95% CI = 45.4-53.0) to total physical activity, transport to 26.5% (95% CI = 23.4-29.5) and leisure to 24.3% (95% CI = 21.1-27.6).

Work contributed to a significantly higher proportion of total physical activity for 30-44 year olds (58.5%, 95% CI = 53.5-63.5) and 45-69 year olds (50.7%, 95% CI = 45.9-55.5) compared to 18-29 year olds (41.2%, 95% CI = 45.9-55.5) 36.6-45.7). Transport contributed to a significantly higher proportion of total physical activity for 45-69 year olds (35.0%, 95% CI = 30.1-39.9) than 18-29 year olds (24.3%, 95% CI = 19.9-28.8) and 30-44 year olds (23.8%, 95% CI = 21.2-26.4). Leisure contributed to a significantly higher proportion of total physical activity for 18-29 year olds (34.5%, 95% CI = 30.4-38.5) than for 30-44 year olds (17.7%, 95% CI = 13.6-21.8) and 45-69 year olds (14.3%, 95% CI = 13.6-21.8)

95% CI = 8.8-19.8).

There were statistically significant differences between men and women in terms of the proportion transport and leisure contributed to total physical activity. Transport contributed to a higher proportion of total physical activity for women than men; and leisure contributed to a higher proportion of total physical activity for men than women. (Compare Tables 101 and 102.)

Table 96. Composition of work, transport and leisure to total physical activity, both sexes combined

	Composition of total physical activity											
				Both sexes	;							
Age group (years)	n	% Activity from work	95% CI	% Activity for transport	95% CI	% Activity during leisure time	95% CI					
18-29	399	41.2	36.6-45.7	24.3	19.9-28.8	34.5	30.4-38.5					
30-44	370	58.5	53.5-63.5	23.8	21.2-26.4	17.7	13.6-21.8					
45-69	225	50.7	45.9-55.5	35.0	30.1-39.9	14.3	8.8-19.8					
18-69	994	49.2	45.4-53.0	23.4-29.5	24.3	21.1-27.6						

Table 97 shows that overall, 71.7% (95% CI = 66.3-77.0) did not engage in vigorous physical activity.

Significantly higher proportion of women (85.6%, 95% CI = 79.1-92.0) than men (56.6%, 95% CI = 50.7-62.6) did not engage in vigorous physical activity.

Significantly higher proportion of Nauruans aged 45-69 did not engage in vigorous physical activity (84.9%, 95% CI = 77.7-92.0) compared to those aged 18-29 (66.9%, 95% CI = 60.8-73.0) and 30-44 (68.2%, 95% CI = 62.5-73.8). Among men, significantly more of those aged 45-69 did not engage in vigorous physical activity than those aged 18-29 and 30-44. Among women, there was no statistically significant difference between the three age groups.

Table 97. Percentage who did not engage in vigorous physical activity

	No vigorous physical activity												
		Men				Women			Both sexes				
Age group		% no				% no				% no			
(years)	n	vigorous	95% CI		n	vigorous	95% CI		n	vigorous	95% CI		
		activity				activity				activity			
18-29	260	45.0	38.2-51.8		263	86.7	78.6-94.8		523	66.9	60.8-73.0		
30-44	221	57.0	51.0-63.0		264	79.9	72.7-87.2		485	68.2	62.5-73.8		
45-69	145	77.9	67.9-88.0		189	90.5	82.7-98.3		334	84.9	77.7-92.0		
18-69	626	56.6	50.7-62.6		716	85.6	79.1-92.0		1342	71.7	66.3-77.0		

Table 98 shows that on average, the mean number of minutes Nauruans spent in sedentary activities each day was 340.9 minutes (95% CI = 312.9-368.9) and the median was 300.0.

There were no statistically significant differences between the three age groups and between men and women.

For mean and median minutes spent in sedentary activities among men and women, please see table in Appendix 2.

Table 98. Minutes spent in sedentary activities on average per day, both sexes combined

	Minu	tes spent in sedentar	y activities on averag	e per day							
			Both sexes								
Age group (years)	n Mean minutes 95% CI Median minutes range										
					(P25-P75)						
18-29	537	335.3	299.8-370.7	300.0	150.0-480.0						
30-44	503	328.0	302.8-353.1	300.0	150.0-480.0						
45-69	343	368.6	329.1-408.1	300.0	150.0-480.0						
18-69	1383	340.9	312.9-368.9	300.0	150.0-480.0						

Table 99 shows that the most common barrier to being physically active was the lack of sidewalks where 37.8% (95% CI = 34.9-40.7) overall stated this as a reason. This is followed by 31.7% (95% CI = 29.0-34.4) who indicated having no time, 24.9% (95% CI = 22.2-27.6) who cited other issues, 3.2% (95% CI = 2.0-4.4) who were not interested, and 2.5% (95% CI = 0.8-4.1) who said dogs was a barrier.

The main barrier cited by men was the lack of sidewalks (39.9%, 95% CI = 35.5-44.2) whilst women cited the lack of time (38.1%, 95% CI = 35.1-41.2). A significantly higher proportion of women than men stated having no time as the main barrier to being physically active -38.1% (95% CI = 35.1-41.2) of women and 24.8% of men (95% CI = 19.5-30.1). Significantly higher proportion of men cited other issues as the main barrier -29.9% (95% CI = 24.5-35.3) of men and 20.1% (95% CI = 17.8-22.5) of women. For details on the main barriers to being physically active among men and women, please see Appendix 2.

Table 99. Percentage reporting given main barriers to being physically active, both sexes combined

	Main barriers to being physically active												
Ago						Both se	xes						
group (years)	n	% Not interested	95% CI	% No time	95% CI	% lack of side walks	95% CI	% Dogs	95% CI	% Other issues	95% CI		
18-29	537	2.9	1.2-4.5	32.7	28.3-37.0	37.7	33.2-42.3	2.7	1.1-4.4	24.0	19.6-28.5		
30-44	502	3.0	2.0-4.0	28.1	24.4-31.8	46.4	41.2-51.7	2.9	0.6-5.2	19.5	15.5-23.6		
45-69	343	4.0	1.6-6.5	34.8	29.2-40.4	26.0	19.3-32.7	1.4	0.1-2.8	33.7	27.8-39.5		
18-69	1382	3.2	2.0-4.4	31.7	29.0-34.4	37.8	34.9-40.7	2.5	0.8-4.1	24.9	22.2-27.6		

4.12. History of raised blood pressure

Participants were asked whether they had ever had their blood pressure measured. If they had, they were then asked follow-up questions of whether they had been diagnosed with raised blood pressure or hypertension, when that diagnosis was given, and their methods to manage/treat the condition.

Table 100 shows that 34.2% (95% CI = 28.2-40.3) of men had never had their blood pressure measured by a doctor or health worker, 43.1% (95% CI = 38.2-47.9) had been measured but not diagnosed, 8.4% (95% CI = 6.5-10.4) were diagnosed but not within the past 12 months and 14.2% (95% CI = 10.8-17.7) had been diagnosed within the past 12 months.

A significantly higher proportion of men aged 18-29 (45.4%, 95% CI = 36.8-54.0) had never had their blood pressure measured compared to older men aged 30-44 (29.8%, 95% CI = 24.2-35.4) and 45-69 (20.0%, 95% CI = 11.1-28.9). Significantly higher proportion of men aged 45-69 (22.0%, 95% CI = 14.7-29.3) were diagnosed within the past 12 months compared to younger men aged 18-29 (10.0%, 95% CI = 7.4-12.5) – two times more. There were no statistically significant differences between the three age groups for the other categories.

Table 100. Blood pressure measure and diagnosis status of men

			Bloc	od pressure me	asurement a	nd diagnosis			
					Men				
Age group (years)	n	% Never measured	95% CI	% mea- sured, not diagnosed	95% CI	% diag- nosed, but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	271	45.4	36.8-54.0	38.7	32.0-45.5	5.9	2.4-9.4	10.0	7.4-12.5
30-44	228	29.8	24.2-35.4	46.1	39.4-52.7	9.6	6.3-13.0	14.5	6.6-22.4
45-69	150	20.0	11.1-28.9	46.7	37.7-55.6	11.3	5.9-16.7	22.0	14.7-29.3
18-69	649	34.2	28.2-40.3	43.1	38.2-47.9	8.4	6.5-10.4	14.2	10.8-17.7

Table 101 shows that 33.4% (95% CI = 29.0-37.8) of women had never had their blood pressure measured, 45.4% (95% CI = 42.1-48.7) had ever been measured but not diagnosed, 8.0% (95% CI = 6.2-9.7) had been diagnosed but not within the past 12 months, and 13.2% (95% CI = 11.0-15.5) were diagnosed within the past 12 months.

A significantly higher proportion of women aged 18-29 (43.6%, 95% CI = 35.8-51.5) had never had their blood pressure measured compared to older women aged 30-44 (25.1%, 95% CI = 21.0-29.2) and 45-69 (23.3%, 95% CI = 15.9-30.7). A significantly higher proportion of women aged 30-44 were measured but not diagnosed (53.1%, 95% CI = 48.9-57.3) compared to those aged 45-69 (42.0%, 95% CI = 36.6-47.3). Significantly more women aged 30-44 (13.5%, 95% CI = 9.6-17.3) and 45-69 (23.8%, 95% CI = 17.1-30.6) were diagnosed within the past 12 months compared to younger women aged 18-29 (4.5%, 95% CI = 0.9-8.1).

Table 101. Blood pressure measurement and diagnosis status of women

			Bloc	od pressure mea	asurement a	nd diagnosis			
					Women				
Age group (years)	n	% Never measured	95% CI	% measured, not diag- nosed	95% CI	% diag- nosed but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	266	43.6	35.8-51.5	47.0	38.5-55.5	4.9	2.2-7.5	4.5	0.9-8.1
30-44	275	25.1	21.0-29.2	53.1	48.9-57.3	8.4	4.8-11.9	13.5	9.6-17.3
45-69	193	23.3	15.9-30.7	42.0	36.6-47.3	10.9	6.0-15.7	23.8	17.1-30.6
18-69	734	32.6	27.3-37.8	47.6	43.4-51.9	7.5	5.1-9.9	12.3	9.5-15.1

Table 102 shows that overall, 33.4% (95% CI = 29.0-37.8) had never had their blood pressure measured, 45.4% (95% CI = 42.1-48.7) had been measured but not diagnosed, 8.0% (95% CI = 6.2-9.7) had been diagnosed but not within the past 12 months, and 13.2% (95% CI = 11.0-15.5) were diagnosed within the past 12 months.

A significantly higher proportion of Nauruans aged 18-29 years were never measured (44.5%, 95% CI = 38.0-50.9) compared to those aged 30-44 (27.5%, 95% CI = 24.0-31.1) and 45-69 (21.8%, 95% CI = 16.1-27.5). A significantly lower proportion of Nauruans aged 18-29 years were diagnosed but not within the past 12 months (5.4%, 95% CI = 3.6-7.2) than those aged 45-69 (11.1%, 95% CI = 7.5-14.6). Significantly more Nauruans aged 45-69 were diagnosed within the past 12 months (23.0%, 95% CI = 17.4-28.6) than those aged 18-29 (7.1%, 95% CI = 4.7-9.6) – three times more.

There was no statistically significant difference between men and women.

Table 102. Blood pressure measurement and diagnosis status, both sexes combined

			Bloo	d pressure mea	asurement ar	nd diagnosis			
					Both sexes				
Age group (yrs)	n	% Never measured	95% CI	% mea- sured, not diagnosed	95% CI	% diag- nosed, but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	537	44.5	38.0-50.9	43.0	37.6-48.5	5.4	3.6-7.2	7.1	4.7-9.6
30-44	503	27.5	24.0-31.1	49.5	45.5-53.5	9.0	6.4-11.7	14.0	9.4-18.6
45-69	343	21.8	16.1-27.5	44.1	38.0-50.1	11.1	7.5-14.6	23.0	17.4-28.6
18-69	1383	33.4	29.0-37.8	45.4	42.1-48.7	8.0	6.2-9.7	13.2	11.0-15.5

Table 103 shows that 25.3% (95% CI = 20.1-30.5) of Nauruans diagnosed with raised blood pressure were currently taking drugs prescribed by a doctor or health worker.

A significantly higher proportion of those aged 45-69 were taking drugs for raised blood pressure (49.5%, 95% CI = 39.3-59.7) than those aged 18-29 (9.1%, 95% CI = 1.5-16.6) and 30-44 (10.7%, 95% CI = 2.9-18.4) – five times more. There was no statistically significant difference between men and women.

Table 103. Percentage diagnosed with raised blood pressure currently taking drugs prescribed by doctor or health worker

Cur	rently takir	ng blood p	ressure drugs	pr	escribed b	y doctor or	health worke	r aı	mong th	ose diagnos	sed
		Men				Women				Both sex	es
Age group (years)	n	% taking meds	95% CI		n	% taking meds	95% CI		n	% taking meds	95% CI
18-29	43	-	-		25	-	-		68	9.1	1.5-16.6
30-44	55	-	-		60	-	-		115	10.7	2.9-18.4
45-69	50	-	-		67	-	-		117	49.5	39.3-59.7
18-69	148	19.3	11.8-26.8		152	31.9	25.9-37.8		300	25.3	20.1-30.5

Table 104 shows that 2.9% (95% CI = 1.1-4.8) of Nauruans previously diagnosed with raised blood pressure had seen a traditional healer. There were no statistically significant differences between men and women and between the three age groups.

Table 104. Percentage previously diagnosed with raised blood pressure who had seen a traditional healer

		See	n a traditional	he	aler amor	ng those p	reviously diagn	ose	ed		
Age group		Men				Wome	n			Both sea	xes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	43	-	-		25	-	-		68	1.4	0.0-4.4
30-44	55	-	-		60	-	-		115	2.5	0.0-5.4
45-69	50	-	-		67	-	-		117	4.3	1.2-7.3
18-69	148	2.7	0.7-4.6		152	3.2	0.0-6.3		300	2.9	1.1-4.8

Table 105 shows that 5.7% (95% CI = 2.9-8.5) of Nauruans previously diagnosed with raised blood pressure were currently taking traditional medicine.

There was no statistically significant difference between men and women, please see table in Appendix 2.

105. Percentage previously diagnosed with raised blood pressure currently taking herbal or traditional remedy

Curre	ntly taking	herbal or	traditional rer	ne	dy for higl	n blood pr	essure among t	ho	se previo	usly diagn	osed	
Age group	Age group Men Women Both sexes											
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI	
18-69	18-69 148 6.0 2.7-9.3 152 5.4 1.7-9.0 300 5.7 2.9-8.5											

4.13. History of diabetes

4.14.

Participants were asked whether they had ever had their blood sugar measured. If they had, they were then asked follow-up questions of whether they had been diagnosed with raised blood sugar or diabetes, when that diagnosis was given, and their methods to manage/treat the condition.

Table 106 shows that 37.8% (95% CI = 34.0-41.7) of men had never had their blood sugar measured, 49.9% (95% CI = 46.4-53.3) were measured but not diagnosed, 5.3% (95% CI = 3.2-7.4) were diagnosed but not within the past 12 months and 7.0% (95% CI = 4.7-9.2) were diagnosed within the past 12 months.

The proportion of men who had never had their blood sugar measured decreased with age – 49.4% (95% CI = 43.7-55.2) among 18-29 year olds, 34.6% (95% CI = 29.0-40.3) among 30-44 year olds and 20.7% (95% CI = 14.5-26.8) among 45-69 year olds. A significantly lower proportion of men aged 18-29 had been diagnosed with raised blood sugar but not within the past 12 months (1.8%, 95% CI = 0.0-3.9) compared to those aged 30-44 (0.0%, 0.0% CI = 0.0-3.9) and 0.0% CI = 0.0-3.9 and 0.0% CI = 0.0-3.9 than those aged 18-29 (0.0%, 0.0% CI = 0.0-4.0).

Table 106. Blood sugar measurement and diagnosis status of men

			Blo	od sugar meas	urement and	d diagnosis			
					Men				
Age group (yrs)	n	% Never measured	95% CI	% mea- sured, not diagnosed	95% CI	% diag- nosed, but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	271	49.4	43.7-55.2	46.5	40.8-52.2	1.8	0.0-3.9	2.2	0.4-4.0
30-44	228	34.6	29.0-40.3	51.3	45.4-57.2	7.0	4.4-9.6	7.0	3.6-10.5
45-69	150	20.7	14.5-26.8	54.0	46.8-61.2	9.3	4.4-14.2	16.0	9.9-22.1
18-69	649	37.8	34.0-41.7	49.9	46.4-53.3	5.3	3.2-7.4	7.0	4.7-9.2

Table 107 shows that 32.5% (95% CI = 27.4-37.6) of women had never had their blood sugar measured, 48.6% (95% CI = 43.8-53.4) were measured but not diagnosed, 8.7% (95% CI = 6.2-11.2) were diagnosed but not within the past 12 months and 10.3% (95% CI = 9.0-11.5) were diagnosed within the past 12 months.

A significantly higher proportion of women aged 18-29 had never had their blood sugar measured (43.6%, 95% CI = 34.7-52.5) compared to women aged 30-44 (25.1%, 95% CI = 19.5-30.7) and 45-69 (22.8%, 95% CI = 16.5-29.1). More women aged 30-44 (12.4%, 95% CI = 8.3-16.4) and 45-69 (18.7%, 95% CI = 12.1-25.2) were diagnosed within the past 12 months compared to women aged 18-29 (3.8%, 95% CI = 2.0-5.6)

Table 107 Blood sugar measurement and diagnosis status of women

			В	lood sugar mea	surement ar	d diagnosis			
					Womer	า			
Age group (years)	n	% Never mea- sured	95% CI	% measured, not diag- nosed	95% CI	% diag- nosed but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	266	43.6	34.7-52.5	45.5	38.0-52.9	7.1	3.5-10.8	3.8	2.0-5.6
30-44	275	25.1	19.5-30.7	55.3	49.2-61.4	7.3	3.8-10.7	12.4	8.3-16.4
45-69	193	22.8	16.5-29.1	45.6	36.2-55.0	13.0	7.6-18.3	18.7	12.1-25.2
18-69	734	32.5	27.4-37.6	48.6	43.8-53.4	8.7	6.2-11.2	10.3	9.0-11.5

Table 108 shows that overall, 35.0% (95% CI = 31.1-38.9) had never had their blood sugar measured, 49.2% (95%CI = 45.3-53.1) were measured but not diagnosed, 7.1% (95% CI = 5.2-8.9) were diagnosed but not within the past 12 months and 8.7% (95% CI = 7.3-10.1) were diagnosed within the past 12 months.

The proportion of Nauruans who never had their blood sugar measured decreased with age -46.4% (95% CI = 40.2-52.6) of 18-29 year olds, 30.0% (95% CI = 25.5-34.4) of 30-44 year olds and 21.8% (95% CI = 18.3-25.4) of 45-69 year olds. Significantly more Nauruans aged 45-69 were diagnosed but not within the past 12 months (11.3%, 95% CI = 6.7-15.9) compared to those aged 18-29 (4.6%, 95% CI = 2.9-6.3). The proportion of Nauruans who were diagnosed within the past 12 months increased with age – 3.0% (95% CI = 2.0-4.0) of 18-29 year olds, 9.6% (95% CI = 7.7-11.6) of 30-44 year olds and 17.5% (95% CI = 11.9-23.0) of 45-69 year olds.

There was no statistically significant difference between men and women.

Table 108. Blood sugar measurement and diagnosis status in both sexes combined

			DI.			1			
			RIO	od sugar meas	urement and	i diagnosis			
					Both sexe	S			
Age group (years)	n	% Never measured	95% CI	% mea- sured, not diagnosed	95% CI	% diag- nosed but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	537	46.4	40.2-52.6	46.0	40.1-51.8	4.6	2.9-6.3	3.0	2.0-4.0
30-44	503	30.0	25.5-34.4	53.3	48.2-58.3	7.1	5.2-9.1	9.6	7.7-11.6
45-69	343	21.8	18.3-25.4	49.4	42.5-56.3	11.3	6.7-15.9	17.5	11.9-23.0
18-69	1383	35.0	31.1-38.9	49.2	45.3-53.1	7.1	5.2-8.9	8.7	7.3-10.1

Table 109 shows that of those previously diagnosed with raised blood sugar, 52.9% (95% CI = 46.4-59.5) attended all scheduled clinic appointments.

The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups, please see table in Appendix 2.

Table 109. Percentage of those previously diagnosed with raised blood sugar who attended all clinic appointments

			Percentage	wh	o attende	d all clinic a	ppointments			
Age group		Men				Women			Both sex	es
(years)	n	%	95% CI		n	%	95% CI	n	%	95% CI
18-69	66	-	-		114	55.9	46.1-65.7	180	52.9	46.4-59.5

Table 110 shows that 35.1% (95% CI = 27.5-42.8) of Nauruans previously diagnosed with diabetes were taking drugs prescribed by a doctor or other health worker.

The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 110. Percentage of those previously diagnosed with diabetes taking drugs prescribed by a doctor or other health worker

	Currently taking drugs prescribed for diabetes among those previously diagnosed														
Men Women Both sexes															
Age group (years)	n	% taking meds	95% CI		n	% taking meds	95% CI		n	% taking meds	95% CI				
18-69	81	-	-		144	32.7	24.7-40.7		225	35.1	27.5-42.8				

Table 111 shows that 11.0% (95% CI = 5.6-16.3) of Nauruans previously diagnosed with diabetes were currently taking insulin prescribed by a doctor or other health worker. The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 111. Percentage of those previously diagnosed with diabetes currently taking insulin prescribed by a doctor or other health worker

	Curi	rently taking	g insulin presc	rib	ed for dia	betes amon	g those previ	วนร	sly diagno	sed	
A do droino		Men				Women				Both sexe	S
Age group (years)	n	% taking insulin	95% CI		n	% taking insulin	95% CI		n	% taking insulin	95% CI
18-69	81	-	-		144	9.5	3.1-15.9		225	11.0	5.6-16.3

Table 112 shows that 3.9% (95% CI = 0.8-7.1) of those previously diagnosed with diabetes had seen a traditional healer. The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 112. Percentage of those previously diagnosed with diabetes who had seen a traditional healer

		Seen a tra	ditional heale	r fc	r diabetes	among th	nose previously	di	agnosed		
Age group		Men			Women Both sexe						xes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-69	18-69 81 144 4.8 1.8-7.8 225 3.9 0.8-7.1										

Table 113 shows that 3.9% (95% CI = 0.8-7.1) of those previously diagnosed with diabetes were currently taking herbal or traditional treatment.

The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 113. Percentage of those previously diagnosed with diabetes who were currently taking herbal or traditional treatment

C	Currently ta	iking herb	al or tradition	al t	reatment	for diabete	es among those	e pi	reviously	diagnosed	k
Age group		Men				Wome	n		Both sexes		
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-69	81	-	-		144	4.0	1.1-6.9		225	3.9	0.8-7.1

4.15. History of raised total cholesterol

Table 114 shows that the majority of men had never had their cholesterol measured (78.4%, 95% CI = 73.8-83.1), 12.7% (95% CI = 10.7-14.7) had been measured but not diagnosed with raised cholesterol, 3.7% (95% CI = 2.0-5.4) were diagnosed but not within the past 12 months and 5.2% (95% CI = 2.4-7.9) were diagnosed within the past 12 months.

A significantly higher proportion of men aged 18-29 had never had their cholesterol measured (86.7%, 95% CI = 82.1-91.3) compared to those aged 45-69 (64.7%, 95% CI = 54.5-74.9). Significantly more men aged 45-69 had been diagnosed within the past 12 months (12.0%, 95% CI = 5.0-19.0) than those aged 18-29 (2.6%, 95% CI = 0.7-4.5). There were no statistically significant differences between the three age groups in other instances.

Table 114. Total cholesterol measurement and diagnosis status of men

	Total cholesterol measurement and diagnosis												
			Total	cholesterol me	asurement a	nd diagnosis							
					Men								
Age group (yrs)	n	% Never measured	95% CI	% mea- sured, not diagnosed	95% CI	% diag- nosed but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI				
18-29	271	86.7	82.1-91.3	9.2	6.1-12.3	1.5 0.1-2		2.6	0.7-4.5				
30-44	228	77.2	70.3-84.1	14.5	9.1-19.8	4.4	2.5-6.3	3.9	0.6-7.3				
45-69	150	64.7	54.5-74.9	16.7	9.8-23.6	6.7	2.6-10.8	12.0	5.0-19.0				
18-69	649	649 78.4 73.8-83.1 12.7 10.7-14.7 3.7 2.0-5.4 5.2 2.4-7.9											

Table 115 shows that majority (79.0%, 95% CI = 76.0-81.9) of women had never had their cholesterol measured, 13.4% (95% CI = 11.2-15.6) had been measured but not diagnosed, 3.9% (95% CI = 2.5-5.2) had been diagnosed but not within the past 12 months and 3.8% (95% CI = 2.3-5.2) were diagnosed within the past 12 months.

A significantly higher proportion of women aged 18-29 had never had their cholesterol measured (87.6%, 95% CI = 85.4-89.8) than those aged 45-69 (69.9%, 95% CI = 63.2-76.7). Significantly fewer women aged 18-29 had been diagnosed but not within the past 12 months (0.8%, 95% CI = 0.0-1.8) than those aged 30-44 years (6.2%, 95% CI = 2.4-10.0) and 45-69 (6.2%, 95% CI = 3.2-9.3). Significantly more women aged 30-44 years (4.7%, 95% CI = 1.9-7.5) and 45-69 (8.3%, 95% CI = 2.8-13.8) had been diagnosed within the past 12 months than those aged 18-29 (0.4%, 95% CI = 0.0-1.1).

Table 115. Total cholesterol measurement and diagnosis status of women

			Total	cholesterol me	asurement a	nd diagnosis			
					Women				
Age group (yrs)	n	% Never measured	95% CI	% mea- sured, not diagnosed	95% CI	% diag- nosed, but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	266	87.6	85.4-89.8	11.3	9.4-13.2	0.8	0.0-1.8	0.4	0.0-1.1
30-44	275	74.5	67.3-81.8	14.5	9.3-19.8	6.2	2.4-10.0	4.7	1.9-7.5
45-69	193	69.9	63.2-76.7	15.5	9.8-21.3	6.2	3.2-9.3	8.3	2.8-13.8
18-69	734	79.0	76.0-81.9	13.4	11.2-15.6	3.9	2.5-5.2	3.8	2.3-5.2

Table 116 shows that overall, 78.7% (95% CI = 75.8-81.7) of Nauruans had never had their cholesterol measured, 13.1% (95% CI = 11.7-14.4) had been measured but not diagnosed with raised cholesterol, 3.8% (95% CI = 2.5-5.0) had been diagnosed but not within the past 12 months and 4.5% (95% CI = 2.8-6.1) were diagnosed within the past 12 months.

A significantly higher proportion of Nauruans aged 18-29 years had never had their cholesterol measured (87.2%, 95% CI = 84.7-89.6) compared to those aged 30-44 years (75.9%, 95% CI = 71.9-79.9) and 45-69 (67.6%, 95% CI = 60.1-75.0). Significantly fewer 18-29 year olds had been diagnosed but not within the past 12 months (1.1%, 95% CI = 0.1-2.1) compared to those aged 30-44 years (5.3%, 95% CI = 3.5-7.0) and 45-69 (6.4%, 95% CI = 4.1-8.8). A significantly higher proportion of 45-69 year olds (10.0%, 95% CI = 6.0-14.0) had been diagnosed within the past 12 months than those aged 18-29 (1.4%, 95% CI = 0.4-2.5).

There was no significant difference between men and women.

Table 116. Total cholesterol measurement and diagnosis status, both sexes combined

			Total	cholesterol me	asurement a	nd diagnosis			
					Both sexes				
Age group (yrs)	n	% Never measured	95% CI	% mea- sured, not diagnosed	95% CI	% diag- nosed, but not within past 12 months	95% CI	% diag- nosed within past 12 months	95% CI
18-29	537	87.2	84.7-89.6	10.3	8.7-11.9	1.1	0.1-2.1	1.4	0.4-2.5
30-44	503	75.9	71.9-79.9	14.5	11.1-17.9	5.3	3.5-7.0	4.3	2.2-6.5
45-69	343	67.6	60.1-75.0	16.1	11.2-20.9	6.4	4.1-8.8	10.0	6.0-14.0
18-69	1383	78.7	75.8-81.7	13.1	11.7-14.4	3.8	2.5-5.0	4.5	2.8-6.1

Table 117 shows that of those previously diagnosed with raised total cholesterol, 18.0% were currently taking drugs prescribed by a doctor or other health worker.

The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 117. Percentage of those previously diagnosed with raised total cholesterol taking drugs prescribed by a doctor or other health worker

	Currently	taking d	rugs prescribed	d fo	or raised cl	nolesterol ar	mong those p	rev	iously di	agnosed	
		Men				Women				Both sexe	es
Age group (years)	n	% taking meds	95% CI		n	% taking meds	95% CI		n	% taking meds	95% CI
18-69	58	-	-		61	-	-		119	18.0	11.0-25.1

Table 118 shows that 0.9% (95% CI = 0.0-2.8) of those previously diagnosed with raised total cholesterol had seen a traditional healer. The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 118. Percentage of those previously diagnosed with raised total cholesterol who had seen a traditional healer

	Seer	a traditio	nal healer for	rais	sed choles	sterol amo	ng those previo	ous	ly diagno	sed	
Age group		Men				Wome	n			Both sex	xes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-69	18-69 58 61 119 0.9 0.0-2.8										

Table 119 shows that 5.3% (95% CI = 2.3-8.2) of those previously diagnosed with raised total cholesterol were currently taking herbal or traditional treatment. The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 119. Percentage of those previously diagnosed with raised total cholesterol who were currently taking herbal or traditional treatment

Curre	ntly taking	herbal or	traditional tre	atı	ment for ra	aised chole	esterol among t	ho	se previo	usly diagn	nosed
Age group		Men				Wome	n			Both sex	xes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-69 58 5.2 0.7-9.7 61 5.4 0.4-10.3 119 5.3 2.3-8.2											

4.16. History of cardiovascular diseases

Table 120 shows that overall, 20.1% (95% CI = 15.7-24.6) reported having ever had a heart attack or chest pain from heart disease or a stroke.

A significantly higher proportion of Nauruans aged 45-69 have ever had a heart attack or chest pain from heart disease or a stroke (27.1%, 95% CI = 23.0-31.2) than those aged 18-29 (16.3%, 95% CI = 10.5-22.1). There was no statistically significant difference between men and women.

Table 120. Percentage who have ever had a heart attack or chest pain from heart disease or had a stroke

	Ha	ving ever	had a heart at	tac	k or chest	pain from	heart disease o	or h	ad a strol	ke	
		Men				Wome	n			Both sex	(es
Age group (years)	n	% CVD history	95% CI		n	% CVD history	95% CI		n	% CVD history	95% CI
18-29	271	14.0	10.0-18.1		275	26.2	20.2-32.2		537	16.3	10.5-22.1
30-44	228	14.0	7.1-20.9		193	28.5	21.2-35.8		503	20.0	14.2-25.7
45-69	150	25.3	17.9-32.8		734	23.4	18.0-28.9		343	27.1	23.0-31.2
18-69	649	16.6	12.2-20.9		275	26.2	20.2-32.2		1383	20.1	15.7-24.6

Table 121 shows that 30.6% (95% CI = 23.1-38.1) of cardiovascular patients reported attended all clinic appointments. The number of respondents was too small to report on any statistically significant differences between men and women and between the three age groups.

Table 121. Percentage of cardiovascular patients who attended all clinic appointments

			Percentage v	wh	o attende	d all clinic a	ppointments			
Age group		Men				Women			Both sex	es
(years)	n	%	95% CI		n	%	95% CI	n	%	95% CI
18-69	88	-	-		139	32.2	22.3-42.1	227	30.6	23.1-38.1

Table 122 shows that overall, 5.1% (95% CI = 3.6-6.5) of all respondents were currently taking aspirin regularly to prevent or treat heart disease. There was no statistically significant difference between men and women. A significantly higher proportion Nauruans aged 45-69 were currently taking aspirin to prevent or treat heart disease (14.9%, 95% CI = 10.5-19.4) compared to those aged 18-29 (1.1%, 95% CI = 0.3-1.9) and 30-44 years (2.9%, 95% CI = 1.7-4.2). Among men and women, there were also similar statistically significant differences between the three age groups.

Table 122. Percentage of respondents currently taking aspirin regularly to prevent or treat heart disease

	Currently taking aspirin regularly to prevent or treat heart disease														
A = = = = = = = = = = = = = = = = = = =		Men				Women				Both sexe	es				
Age group (years)	n	% taking aspirin	95% CI		n	% taking aspirin	95% CI		n	% taking aspirin	95% CI				
18-29	271	0.7	0.0-1.8		266	1.5	0.1-2.9		537	1.1	0.3-1.9				
30-44	228	2.6	0.0-5.2		275	3.3	1.3-5.3		503	2.9	1.7-4.2				
45-69	150	17.3	10.9-23.8		193	13.0	8.0-17.9		343	14.9	10.5-19.4				
18-69	649	5.1	2.8-7.5		734	5.0	3.4-6.6		1383	5.1	3.6-6.5				

Table 123 shows that overall, 2.2% (95% CI = 1.2-3.1) of all respondents were currently taking statins regularly to prevent or treat heart disease. There was no statistically significant difference between men and women.

A significantly higher proportion of Nauruans aged 45-69 were currently taking statins regularly to prevent or treat heart disease (7.0%, 95% CI = 3.7-10.3) compared to those aged 18-29 (0.4%, 95% CI = 0.0-0.9) and 30-44 years (1.0%, 95% CI = 0.1-1.9).

Table 123. Percentage of respondents currently taking statins regularly to prevent or treat heart disease

		Currentl	y taking stat	ins	s regularly	to prevent	or treat heart	dis	ease		
Ago group		Men				Women				Both sexe	S
Age group (years)	n	% taking statins	95% CI		n	% taking statins	95% CI		n	% taking statins	95% CI
18-29	271	0.0	0.0-0.0		266	0.8	0.0-1.8		537	0.4	0.0-0.9
30-44	228	0.9	0.0-2.0		275	1.1	0.0-2.7		503	1.0	0.1-1.9
45-69	150	7.3	3.7-10.9		193	6.7	3.0-10.5		343	7.0	3.7-10.3
18-69	649	2.0	1.2-2.8		734	2.4	1.1-3.7		1383	2.2	1.2-3.1

4.17. Lifestyle advice

In this section, survey respondents were asked whether they had been advised by a doctor or health worker to quit or not start on tobacco, to reduce salt in the diet, to eat at least five servings of fruit and/or vegetable, to reduce fat in the diet, to start or do more physical activity, and to maintain a healthy body weight or to lose weight.

Table 124 shows that overall, 28.8% (95% CI = 26.0-31.7) had been advised by a doctor or health worker to quit using tobacco or not start -24.4% (95% CI = 20.0-28.9) of men and 32.9% (95% CI = 28.4-37.5) of women.

There were no statistically significant differences between men and women and between the three age groups.

Table 124. Percentage advised by doctor or health worker to quit using tobacco or not start

	Advised by doctor or health worker to quit using tobacco or don't start												
Ago group		Men			Women				Both sexes				
Age group (years)	n	% ad- vised	95% CI		n	% ad- vised	95% CI		n	% ad- vised	95% CI		
18-29	271	21.0	14.0-28.1		266	27.8	22.6-33.0		537	24.5	20.4-28.7		
30-44	228	26.3	20.3-32.3		275	38.9	31.8-46.0		503	32.5	28.7-36.3		
45-69	150	28.0	21.9-34.1		193	34.2	25.9-42.5		343	31.4	26.7-36.1		
18-69	649	24.4	20.0-28.9		734	32.9	28.4-37.5		1383	28.8	26.0-31.7		

Table 125 shows that overall, 37.4% (95% CI = 33.6-41.3) had been advised by a doctor or health worker to reduce salt in the diet. There were no statistically significant differences between men and women.

A significantly higher proportion of Nauruans aged 45-69 years had been advised by a doctor or health worker to reduce salt in the diet (47.5%, 95% CI = 43.6-51.4) compared to those aged 18-29 (30.4%, 95% CI = 24.6-36.2)and 30-44 years (39.2%, 95% CI = 33.5-44.9). Among men and women, there were similar statistically significant differences between the three age groups.

Table 125. Percentage advised by doctor or health worker to reduce salt in the diet

	Advised by doctor or health worker to reduce salt in the diet											
Ago group		Men			Women				Both sexes			
Age group (years)	n % ad- vised		95% CI		n	% ad- vised	95% CI		n	% ad- vised	95% CI	
18-29	271	28.4	20.6-36.2		266	32.3	25.1-39.6		537	30.4	24.6-36.2	
30-44	228	37.7	29.6-45.8		275	40.7	35.0-46.5		503	39.2	33.5-44.9	
45-69	150	46.0	39.9-52.1		193	48.7	43.6-53.8		343	47.5	43.6-51.4	
18-69	649	35.6	31.4-39.9		734	39.2	34.6-43.8		1383	37.4	33.6-41.3	

Table 126 shows that overall, 47.1% (95% CI = 44.0-50.2) had been advised by a doctor or health worker to eat at least five servings of fruit and/or vegetables each day. A significantly higher proportion of women than men had been advised by a doctor or health worker to eat at least five servings of fruit and/or vegetables each day – 42.9% (95% CI = 39.0-46.7) of men and 51.0% (95% CI = 47.5-54.6) of women.

There was no statistically significant difference between the three age groups.

Table 126. Percentage advised by doctor or health worker to eat at least five servings of fruit and/or vegetables each day

Ad	Advised by doctor or health worker to eat at least five servings of fruit and/or vegetables each day											
Age group		Men			Women				Both sexes			
	n	% ad-	95% CI		n	% ad-	95% CI		n	% ad-	95% CI	
(years)	n	vised	95% CI	11	n	vised	93% CI	"	vised	95% CI		
18-29	271	35.8	28.1-43.5		266	47.7	42.7-52.7		537	42.0	37.3-46.6	
30-44	228	46.1	39.9-52.2		275	55.6	47.9-63.4		503	50.7	46.0-55.5	
45-69	150	51.3	42.6-60.1		193	50.8	45.8-55.7		343	51.0	46.2-55.9	
18-69	649	42.9	39.0-46.7		734	51.0	47.5-54.6		1383	47.1	44.0-50.2	

Table 127 shows that overall, 42.7% (95% CI = 39.7-45.8) had been advised by a doctor or health worker to reduce fat in the diet. There was no significant difference between men and women.

A significantly higher proportion of Nauruans aged 30-44 years (51.5%, 95% CI = 47.3-55.6) and 45-69 (49.0%, 95% CI = 43.1-54.8) were advised by a doctor or health worker to reduce fat in the diet compared to those aged 18-29 (32.5%, 95% CI = 27.4-37.6). Among men, a significantly higher proportion of those aged 30-44 years were advised to reduce fat in the diet (47.8%, 95% CI = 42.1-53.5) than those aged 18-29 (30.3%, 95% CI = 22.2-38.3). Among women, significantly higher proportions of those aged 30-44 years (55.3%, 95% CI = 49.2-61.4) and 45-69 (49.7%, 95% CI = 44.6-54.9) were advised to reduce fat in the diet than those aged 18-29 (34.6%, 95% CI = 28.8-40.4).

Table 127. Percentage advised by doctor or health worker to reduce fat in the diet

	Advised by doctor or health worker to reduce fat in the diet												
		Men			Women				Both sexes				
Age group (years)	n	% ad-	95% CI		n	% ad-	95% CI		n	% ad-	95% CI		
(years)	- 11	vised	95 % CI		"	vised	3370 CI		=	vised	93 /0 Cl		
18-29	271	30.3	22.2-38.3		266	34.6	28.8-40.4		537	32.5	27.4-37.6		
30-44	228	47.8	42.1-53.5		275	55.3	49.2-61.4		503	51.5	47.3-55.6		
45-69	150	48.0	38.0-58.0		193	49.7	44.6-54.9		343	49.0	43.1-54.8		
18-69	649	40.4	36.1-44.6		734	45.0	42.2-47.7		1383	42.7	39.7-45.8		

Table 128 shows that overall, 48.3% (95% CI = 45.5-51.1) had been advised by a doctor or health worker to start or do more physical activity. A significantly higher proportion of women than men were advised by a doctor or health worker to start or to do more physical activity -44.8% (95% CI = 40.8-48.9) of men and 51.6% (95% CI = 49.3-53.9) of women.

A significantly higher proportion of Nauruans aged 30-44 years (55.1%, 95% CI = 50.2-60.0) and 45-69 (55.4%, 95% CI = 48.2-62.6) were advised by a doctor or health worker to start or to do more physical activity compared to those aged 18-29 (39.1%, 95% CI = 34.7-43.4). Among men, a significantly higher proportion of those aged 30-44 years and 45-69 years were advised to start or to do more physical activity than those aged 18-29. Among women, a significantly higher proportion of 30-44 year olds were advised to do so than 18-29 year olds.

Table 128. Percentage advised by doctor or health worker to start or do more physical activity

	Advised by doctor or health worker to start or do more physical activity												
Ago group		Men			Women				Both sexes				
Age group (years)	n	% ad- vised	95% CI		n	% ad- vised	95% CI		n	% ad- vised	95% CI		
18-29	271	35.4	28.6-42.2		266	42.5	35.9-49.1		537	39.1	34.7-43.4		
30-44	228	48.7	43.2-54.1		275	61.8	54.4-69.2		503	55.1	50.2-60.0		
45-69	150	56.7	48.1-65.2		193	54.4	46.8-62.0		343	55.4	48.2-62.6		
18-69	649	44.8	40.8-48.9		734	51.6	49.3-53.9		1383	48.3	45.5-51.1		

Table 129 shows that overall, 47.4% (95% CI = 44.4-50.4) had been advised by a doctor or health worker to maintain a healthy body weight or to lose weight. There was no statistically significant difference between men and women.

A significantly higher proportion of Nauruans aged 30-44 years (53.2%, 95% CI = 47.4-59.0) and 45-69 (53.1%, 95% CI = 47.5-58.7) were advised by a doctor or health worker to maintain a healthy body weight or to lose weight compared to those aged 18-29 (39.7%, 95% CI = 34.4-45.0).

Table 129. Percentage advised by doctor or health worker to maintain a healthy body weight or to lose weight

	Advised by doctor or health worker to maintain a healthy body weight or to lose weight												
A 010 01101110		Men			Women				Both sexes				
Age group (years) n	% ad-	95% CI	050/ CI	n	% ad-	95% CI		<u></u>	% ad-	95% CI			
	n	vised	95% CI		n			vised	n	vised	95 % CI		
18-29	271	39.1	31.5-46.8		266	40.2	31.9-48.6		537	39.7	34.4-45.0		
30-44	228	50.9	44.2-57.5		275	55.6	48.3-63.0		503	53.2	47.4-59.0		
45-69	150	56.0	45.7-66.3		193	50.8	45.0-56.6		343	53.1	47.5-58.7		
18-69	649	47.0	42.4-51.6		734	47.8	44.1-51.4		1383	47.4	44.4-50.4		

4.18. Cervical and breast cancer screening

Table 130 shows that 59.5% (95% CI = 53.2-65.8 of women aged 30-49 years who had ever been tested for cervical cancer. There was no statistically significant difference between the three age groups.

Table 130. Percentage of females ever tested for cervical cancer

Age group	Women							
(years)	n	% ever tested	95% CI					
30-44	272	59.6	51.6-67.6					
45-49	49	59.2	42.4-76.0					
30-49	321	59.5	53.2-65.8					

Table 131 shows that among women who ever had a screening test for cervical cancer, 49.5% (95% CI = 44.7-54.2) did so within the last year, 34.1% (95% CI = 28.8-39.4) within the last two years and 16.4% (95% CI = 11.8-21.1) longer than two years.

Table 131. Time of last screening for cervical cancer among women who were ever tested for cervical cancer

	Time of last screening for cervical cancer												
	Women												
Age group (years)	n	% within last year	95% CI	% within last 2 years	95% CI	% longer than two years	95% CI						
18-29	123	32.5	20.3-44.8	49.6	42.6-56.6	17.9	6.7-29.0						
30-44	151	53.6	44.8-62.5	26.5	17.5-35.5	19.9	12.3-27.5						
45-69	83	-	-	-	-	-	-						
18-69	357	49.5	44.7-54.2	34.1	28.8-39.4	16.4	11.8-21.1						

Table 132 shows that 35.3% (95% CI = 29.5-41.1) of women had undertaken self-breast examination to check for abnormalities. A significantly higher proportion of those aged 45-69 (45.4%, 95% CI = 37.3-53.5) had done a self-breast examination compared to those aged 18-29 (27.6%, 95% CI = 20.4-34.7).

Table 132. Percentage who had performed self-breast examination to check for abnormalities

Age group		Women							
(years)	n	% self-breast examination	95% CI						
18-29	254	27.6	20.4-34.7						
30-44	258	37.6	31.1-44.1						
45-69	185	45.4	37.3-53.5						
18-69	697	35.3	29.5-41.1						

Table 133 shows that 63.7% (95% CI = 55.7-71.6) of women who have had self-breast examination did so every month. However, the number of respondents was too small to report on any statistically significant difference between the three age groups.

Table 133. Percentage who did self-breast examination every month among women who had performed self-breast examination

		Women						
Age group		% Did self-breast						
(years)	n	examination every	95% CI					
		month						
18-69	142	63.7	55.7-71.6					

4.19. Mental health disorder

In this section, respondents were asked mental health disorder (K10) questions. The questions include how often they felt tired out for no good reason, nervous, hopeless, restless, depressed, sad or worthless.

Table 134 shows that 61.8% (95% CI = 56.1-67.6) of men were classified as well, 24.0% (95% CI = 19.6-28.3) were classified with mild mental disorder, 10.5% (95% CI = 7.6-13.4) were classified with moderate mental disorder and 3.7% (95% CI = 2.3-5.1) with severe mental disorder.

There was no significant difference between the three age groups.

Table 134. Percentage of men in each mental health disorder category

	Percentage of mental health disorder												
					Men								
Age group (years)	n	% likely to be well < 20	95% CI	% Mild mental disorder 20-24	95% CI	% Moder- ate mental disorder 25-29	95% CI	% severe mental dis- order ≥ 30	95% CI				
18-29	270	60.7	54.7-66.8	24.1	19.8-28.4	11.1	7.0-15.2	4.1	1.2-6.9				
30-44	228	56.6	47.7-65.5	27.6	19.3-36.0	11.8	6.5-17.2	3.9	1.3-6.6				
45-69	150	72.0	65.3-78.7	18.0	12.5-23.5	7.3	4.2-10.5	2.7	0.2-5.1				
18-69	648	61.8	56.1-67.6	24.0	19.6-28.3	10.5	7.6-13.4	3.7	2.3-5.1				

Table 135 shows that 55.3% (95% CI = 47.7-63.0) of women were classified as well, 22.9% (95% CI = 19.1-26.7) with mild mental disorder, 15.0% (95% CI = 11.2-18.8) with moderate mental disorder and 6.8% (95% CI = 3.7-9.9) classified as having severe mental disorder.

There was no significant difference between the three age groups

Table 135. Percentage of women in each mental health disorder category

	Percentage of mental health disorder												
					Women								
Age group (years)	n	% likely to be well < 20	95% CI	% Mild mental disorder 20-24	95% CI	% Moder- ate mental disorder 25-29	95% CI	% severe mental dis- order ≥30	95% CI				
18-29	266	54.9	43.8-65.9	23.3	17.3-29.3	14.7	9.8-19.5	7.1	3.0-11.3				
30-44	275	51.6	46.9-56.4	24.0	19.4-28.6	17.1	12.7-21.5	7.3	3.6-11.0				
45-69	193	60.6	49.0-72.2	20.7	13.6-27.9	13.0	6.3-19.6	5.7	2.6-8.8				

	18-69	734	55.3	47.7-63.0	22.9	19.1-26.7	15.0	11.2-18.8	6.8	3.7-9.9
- 1	10 07	, , ,	33.3	17.7 05.0	22.7	12.1 20.7	13.0	11.2 10.0	0.0	3.7 2.2

Table 136 shows that overall, 58.5% (95% CI = 52.1-64.8) were classified as well, 23.4% (95% CI = 20.8-26.0) with a mild mental disorder, 12.8% (95% CI = 10.3-15.4) with a moderate mental disorder and 5.3% (95% CI = 3.2-7.4) with a severe mental disorder.

There were no statistically significant differences between men and women and between the three age groups.

Table 136. Prevalence of mental health disorders, both sexes combined

	Percentage of mental health disorder												
	Both sexes												
Age group (years)	n	% likely to be well < 20	95% CI	% Mild mental disorder 20-24	95% CI	% Moder- ate mental disorder 25-29	95% CI	% severe mental dis- order ≥ 30	95% CI				
18-29	536	57.7	50.1-65.3	23.7	20.0-27.3	13.0	9.2-16.7	5.7	2.5-8.8				
30-44	503	54.2	49.5-58.8	25.9	22.0-29.7	14.4	11.6-17.2	5.6	3.4-7.8				
45-69	343	65.8	57.8-73.7	19.5	15.3-23.7	10.4	6.9-14.0	4.3	2.1-6.5				
18-69	1382	58.5	52.1-64.8	23.4	20.8-26.0	12.8	10.3-15.4	5.3	3.2-7.4				

4.20. Oral health

Respondents were asked about visits to the dentist and state of their teeth and gum.

Table 137 shows that 71.5% (95% CI = 69.1-73.9) of Nauruan men had been to a dentist for a check-up with no treatment in the last six months; 22.7% (95% CI = 20.2-25.1) visited a dentist and had an extraction or tooth filled; and 5.8% (95% CI = 3.4-8.2) had not visited a dentist in the last six months.

A significantly higher proportion of Nauruan men aged 18-29 had visited the dentist but received no treatment in the last six months (81.6%, 95% CI = 78.2-84.9) compared to those aged 30-44 years (68.0%, 95% CI = 78.2-84.9) 61.7-74.3) and 45-69 (58.0%, 95% CI = 50.2-65.8). A significantly higher proportion of Nauruan men aged 30-44 years (25.9%, 95% CI = 19.7-32.1) and 45-69 (33.3%, 95% CI = 24.4-42.3) had visited the dentist and had either an extraction or tooth filled in the last six months than those aged 18-29 (14.4%, 95% CI = 10.6-18.2).

There was no statistically significant difference between the three age groups in terms of the proportion who had not been to the dentist in the last six months.

Table 137. Percentage of men who had been to a dentist in the last six months

		Visit the dentis	t for check-	up or treatment	in the last six	months							
Ago		Men											
Age group		% Yes, check-		% Yes, extrac-		% No, not							
(years)	n	up, no treat-	95% CI	tion or filling	95% CI	been in the	95% CI						
(ycars)		ment		of tooth		last six months							
18-29	271	81.6	78.2-84.9	14.4	10.6-18.2	4.1	2.0-6.2						
30-44	228	68.0	61.7-74.3	25.9	19.7-32.1	6.1	2.9-9.4						
45-69	150	58.0	50.2-65.8	33.3	24.4-42.3	8.7	2.8-14.6						
18-69	649	71.5	69.1-73.9	22.7	20.2-25.1	5.8	3.4-8.2						

Table 138 shows that 68.1% (95% CI = 62.8-73.4) of Nauruan women had been to a dentist for a check-up with no treatment; 26.4% (95% CI = 21.4-31.4) visited a dentist and had an extraction or tooth filled; and 5.5% (95% CI = 3.7-7.2) had not visited a dentist in the last six months.

There was no statistically significant difference between the three age groups.

Table 138. Percentage of women who had been to a dentist in the last six months

		Visit the d	entist for che	ck-up or treatm	nent in the last si	x months	
				Wom	ien		
Age group (years)	n	% Yes, check-up, no treat- ment	95% CI	% Yes, Extraction or filling of tooth	95% CI	% No, not been in the last six months	95% CI
18-29	266	71.1	63.8-78.3	24.1	17.9-30.2	4.9	2.3-7.4
30-44	275	67.6	61.9-73.4	28.0	22.2-33.8	4.4	2.1-6.6
45-69	193	63.7	54.4-73.1	28.5	17.6-39.3	7.8	3.8-11.7
18-69	734	68.1	62.8-73.4	26.4	21.4-31.4	5.5	3.7-7.2

Table 139 shows that 69.8% (95% CI = 66.4-73.1) of Nauruans had been to a dentist for a check-up with no treatment; 24.6% (95% CI = 21.8-27.5) visited a dentist and had an extraction or tooth filled; and 5.6% (95% CI = 4.1-7.2) had not visited a dentist in the last six months.

A significantly higher proportion of Nauruans aged 18-29 had visited the dentist but received no treatment in the last six months (76.1%, 95% CI = 71.8-80.4) compared to those aged 45-69 (61.1%, 95% CI = 54.5-67.8). A significantly higher proportion of Nauruans aged 45-69 (30.7%, 95% CI = 24.7-36.7) had visited the dentist and had either an extraction or tooth filled in the last six months than those aged 18-29 (19.4%, 95% CI = 15.6-23.2).

There was no statistically significant difference between the three age groups in terms of the proportion who had not been to the dentist in the last six months. There was also no statistically significant difference between men and women.

Table 139. Percentage who had been to a dentist in the last six months, both sexes combined

	Visit the dentist for check-up or treatment in the last six months												
		Both sexes											
Age group (years)	n	% Yes, check- up, no treat- ment	95% CI	% Yes, Extraction or filling of tooth	95% CI	% No, not been in the last six months	95% CI						
18-29	537	76.1	71.8-80.4	19.4	15.6-23.2	4.5	2.6-6.3						
30-44	503	67.8	62.5-73.1	26.9	22.3-31.5	5.3	3.0-7.5						
45-69	343 61.1		54.5-67.8	30.7	24.7-36.7	8.2	5.1-11.2						
18-69	1383 69.8		66.4-73.1	24.6	21.8-27.5	5.6	4.1-7.2						

Table 140 shows that more than half of men (63.3%, 95% CI = 57.9-68.8) described their teeth as being in a painful state, 6.9% (95% CI = 4.5-9.2) as being decayed, 11.2% (95% CI = 8.6-13.8) as having loose or mobile teeth, and only 18.6% (95% CI = 14.2-23.0) as having good teeth.

A significantly higher proportion of men aged 18-29 years described their teeth as being in a painful state (71.2%, 95% CI = 64.5-78.0) compared to those aged 45-69 years (49.3%, 95% CI = 40.7-58.0). A significantly higher proportion of men aged 45-69 years described their teeth as being in decay (16.7%, 95% CI = 10.8-22.5) compared to those aged 18-29 years (5.5%, 95% CI = 2.4-8.7) and 30-44 years (2.2%, 95% CI = 0.2-4.2).

Table 140. Percentage of men who described the state of their teeth

	Described state of their teeth												
Age	Men												
group (years)	n	% Good	95% CI	% Pain- ful	95% CI	% Decayed	95% CI	Loose/ mobile teeth	95% CI				
18-29	271	15.1	10.4-19.9	71.2	64.5-78.0	5.5	2.4-8.7	8.1	4.5-11.8				
30-44	228	23.2	15.6-30.9	62.7	55.3-70.2	2.2	0.2-4.2	11.8	6.2-17.5				
45-69	150	18.0	9.1-26.9	49.3	40.7-58.0	16.7	10.8-22.5	16.0	9.9-22.1				
18-69	649	18.6	14.2-23.0	63.3	57.9-68.8	6.9	4.5-9.2	11.2	8.6-13.8				

Table 141 shows that more than half of women (54.0%, 95% CI = 49.9-58.1) described their teeth as being in a painful state, 7.6% (95% CI = 5.1-10.1) as being decayed, 12.3% (95% CI = 8.6-16.0) as having loose or mobile teeth, and only 26.1% (95% CI = 24.1-28.1) as having good teeth.

A significantly higher proportion of women aged 45-69 described their teeth as being in a good state (30.6%, 95% CI = 27.1-34.1) compared to those aged 18-29 (21.8%, 95% CI = 17.5-26.1). A significantly higher proportion of women aged 18-29 described their teeth as being in a painful state (62.4%, 95% CI = 55.8-69.0) compared to those aged 45-69 (41.5%, 95% CI = 34.1-48.8). The proportion of women who indicated that their teeth were decayed increased with age -0.8% (95% CI = 0.0-2.4) among 18-29 year olds, 6.2% (95% CI = 4.2-8.2) among 30-44 year olds and 20.7% (95% CI = 13.4-28.0) among 45-69 year olds.

Table 141. Percentage of women who described the state of their teeth

	idale 11111 electricage of Women who described the state of their teeth												
				Describe	d state of thei	rteeth							
Age	Women												
group (years)	n	% Good	95% CI	% Pain- ful	95% CI	% Decayed	95% CI	Loose/ mobile teeth	95% CI				
18-29	266	21.8	17.5-26.1	62.4	55.8-69.0	0.8	0.0-2.4	15.0	8.9-21.2				
30-44	275	28.4	22.8-33.9	52.7	45.9-59.5	6.2	4.2-8.2	12.7	7.8-17.7				
45-69	193	30.6	27.1-34.1	41.5	34.1-48.8	20.7	13.4-28.0	7.3	2.7-11.8				
18-69	734	26.1	24.1-28.1	54.0	49.9-58.1	7.6	5.1-10.1	12.3	8.6-16.0				

Table 142 shows that overall, more than half (58.5%, 95% CI = 55.7-61.4) described their teeth as being in a painful state, 7.2% (95% CI = 5.6-8.8) as being decayed, 11.8% (95% CI = 9.1-14.5) as having loose or mobile teeth, and only 22.5% (95% CI = 20.0-25.0) as having good teeth.

The proportion of Nauruans who indicated that their teeth were in a painful state decreased with age -66.7% (95% CI = 63.3-70.1) among 18-29 year olds, 57.8% (95% CI = 54.1-61.6) among 30-44 year olds and 45.0% (95% CI = 39.6-50.4) among 45-69 year olds. A significantly higher proportion of 45-69 year olds described their teeth as being decayed (18.9%, 95% CI = 14.8-22.9) compared to those aged 18-29 (3.1%, 95% CI = 1.0-5.1) and 30-44 years (4.1%, 95% CI = 3.0-5.3).

A significantly higher proportion of women than men described their teeth as being in a good state -26.1% (95% CI = 24.1-28.1) of women and 18.6% (95% CI = 14.2-23.0) of men. (Compare Tables 148 and 149.)

Table 142. Percentage who described the state of their teeth, both sexes combined

				Describe	d state of thei	r teeth						
Age	Both sexes											
group (years)	n	% Good	95% CI	% Pain- ful	95% CI	% Decayed	95% CI	Loose/ mobile teeth	95% CI			
18-29	537	18.6	15.3-21.9	66.7	63.3-70.1	3.1	1.0-5.1	11.7	7.8-15.6			
30-44	503	25.8	20.5-31.0	57.8	54.1-61.6	4.1	3.0-5.3	12.3	8.3-16.3			
45-69	343	24.9	19.4-30.4	45.0	39.6-50.4	18.9	14.8-22.9	11.2	7.1-15.3			
18-69	1383	22.5	20.0-25.0	58.5	55.7-61.4	7.2	5.6-8.8	11.8	9.1-14.5			

Table 143 shows that majority of men (80.2%, 95% CI = 77.2-83.1) described their gum as being in a good state, 9.4% (95% CI = 7.5-11.2) as bleeding and/or painful, 5.7% (95% CI = 4.2-7.2) as being swollen, and 4.8% (95% CI = 2.9-6.7) who were not sure or had other responses.

There was no statistically significant difference between the three age groups.

Table 143. Percentage of men who described the state of their gum

	Described state of their gums												
Λ αι α		Men											
Age group (years)	n	% Good	95% CI	% Bleed- ing and/ or Painful	95% CI	% Swollen	95% CI	Not sure or other	95% CI				
18-29	271	83.0	76.8-89.2	7.4	4.6-10.2	4.1	2.1-6.0	5.5	2.0-9.1				
30-44	228	78.5	73.7-83.3	10.5	6.3-14.8	7.0	3.5-10.5	3.9	0.5-7.4				
45-69	150	77.3	71.7-83.0	11.3	7.6-15.1	6.7	2.8-10.5	4.7	0.5-8.8				
18-69	649	80.2	77.2-83.1	9.4	7.5-11.2	5.7	4.2-7.2	4.8	2.9-6.7				

Table 144 shows that majority of women (82.1%, 95% CI = 79.9-84.2) described their gum as being in a good state, 9.0% (95% CI = 6.4-11.6) as bleeding and/or painful, 6.7% (95% CI = 4.5-8.9) as being swollen, and 2.2% (95% CI = 1.2-3.3) who were not sure or had other responses.

There was no statistically significant difference between the three age groups.

Table 144. Percentage of women who described the state of their gum

	Described state of their gums												
٨٩٥	Women												
Age group (years)	n	% Good	95% CI	% Bleed- ing and/ or Painful	95% CI	% Swollen	95% CI	Not sure or other	95% CI				
18-29	266	81.6	78.3-84.8	9.0	4.7-13.3	6.8	4.1-9.4	2.6	0.5-4.7				
30-44	275	80.4	76.3-84.5	10.9	6.9-14.9	6.9	3.4-10.4	1.8	0.0-3.8				
45-69	193	85.0	80.6-89.4	6.7	3.2-10.2	6.2	3.2-9.2	2.1	0.0-4.5				
18-69	734	82.1	79.9-84.2	9.0	6.4-11.6	6.7	4.5-8.9	2.2	1.2-3.3				

Table 145 shows that majority of Nauruans (81.1%, 95% CI = 79.2-83.1) described their gum as being in a good state, 9.2% (95% CI = 7.7-10.7) as bleeding and/or painful, 6.2% (95% CI = 5.0-7.3) as being swollen, and 3.5% (95% CI = 2.5-4.5) who were not sure or had other responses.

There were no statistically significant differences between the three age groups and between men and women.

Table 145. Percentage who described the state of their gum

	Described state of their gums												
Δ		Both sexes											
Age group (years)	n	% Good	95% CI	% Bleed- ing and/ or Painful	95% CI	% Swollen	95% CI	Not sure or other	95% CI				
18-29	537	82.3	78.9-85.7	8.2	5.6-10.8	5.5	4.0-6.9	4.0	2.4-5.6				
30-44	503	79.4	76.0-82.8	10.7	8.3-13.1	7.0	4.1-9.8	2.9	0.8-5.1				
45-69	343	81.5	78.5-84.6	8.8	6.5-11.1	6.4	4.4-8.5	3.2	1.1-5.4				
18-69	1383	81.1	79.2-83.1	9.2	7.7-10.7	6.2	5.0-7.3	3.5	2.5-4.5				

4.21. Physical measurements

4.20.1 Height and Weight

Height and weight of each participant (excluding pregnant women) was measured following the standardized STEPS protocol. The body mass index (BMI) of each participant was calculated by dividing weight (kilograms) by square of height (metres2). BMI risk categories are defined as follows:

> Underweight BMI < 18.5

Normal weight $18.5 \le BMI \le 24.9$

Overweight BMI ≥ 25.0

Obese BMI ≥ 30.0

Table 146 shows that the mean height of men was 168.7 cm (95% CI = 168.1-169.2) and 157.3 cm (95% CI = 156.3-158.3) for women.

There was statistically significant difference in mean height between men and women but none between the three age groups.

Table 146. Mean height (cm)

	Mean height (cm)											
Age group		Mer	1	Women								
(years)	n	Mean	95% CI		n	Mean	95% CI					
18-29	200	168.7	167.6-169.8		187	157.5	156.9-158.1					
30-44	188	168.2	167.1-169.4		203	157.1	155.7-158.5					
45-69	121	169.3	168.0-170.6		158	157.2	155.5-158.9					
18-69	509	168.7	168.1-169.2		548	157.3	156.3-158.3					

Table 147 shows that the mean weight of men was 99.7 kg (95% CI = 96.5-102.9) and 89.5 kg (95% CI = 86.0-93.0) for women. There was statistically significant difference in mean weight between men and women but none between the three age groups.

Table 147. Mean weight (kg)

Mean weight (kg)												
Age group	Men Women											
(years)	n	Mean	95% CI		n	Mean	95% CI					
18-29	202	96.4	90.8-101.9		187	84.1	77.6-90.6					
30-44	188	100.8	98.1-103.4		203	95.1	90.0-100.2					
45-69	121	103.7	97.0-110.5		158	91.0	87.0-95.0					
18-69	511	99.7	96.5-102.9		548	89.5	86.0-93.0					

4.20.2 Body Mass Index and Weight Categories

Table 147 shows that the mean BMI overall was 34.4 kg/m2 (95% CI = 33.6-35.2).

Younger Nauruans aged 18-29 had significantly lower BMI (32.3, 95% CI = 31.1-33.5) than those aged 30-44 years (35.8, 95% CI = 35.0-36.7) and 45-69 (35.7, 95% CI = 34.9-36.5). There were statistically significant differences between the three age groups among men and women; but there was no statistically significant difference between men and women.

Table 148. Mean BMI (kg/m2)

	Mean BMI (kg/m²)													
Age group		Men				Wome	n		Both sexes					
(years)	n	Mean	95% CI		n	Mean	95% CI		n	Mean	95% CI			
18-29	197	32.6	31.8-33.5		184	32.1	30.1-34.0		381	32.3	31.1-33.5			
30-44	186	35.0	34.1-36.0		195	36.8	35.6-38.0		381	35.8	35.0-36.7			
45-69	5-69 120 35.4 34.3-36.5					36.0	35.0-37.0		274	35.7	34.9-36.5			
18-69	503	34.1	33.4-34.9		533	34.6	33.5-35.7		1036	34.4	33.6-35.2			

Table 149 shows that majority of Nauruan men were classified as being obese (71.0%, 95% CI = 67.2-74.8), followed by 20.4% (95% CI = 16.8-24.0) as overweight and 8.6% (95% CI = 4.5-12.6) as having normal weight.

A significantly higher proportion of Nauruan men aged 30-44 years (75.8%, 95% CI = 70.1-81.5) and 45-69 (79.2%, 95% CI = 69.7-88.6) were classified as obese compared to those aged 18-29 (61.9%, 95% CI = 54.6-69.3).

There were no statistically significant differences between the three age groups for the other classifications.

Table 149. Percentage of men in the specific BMI classifications

	BMI classifications												
Λαο					Men								
Age group (years)	n	% Under- weight < 18.5	95% CI	% Normal weight 18.5-24.9	95% CI	% Over- weight 25.0-29.9	95% CI	% Obese ≥ 30.0	95% CI				
18-29	197	-	-	11.2	5.6-16.7	26.9	20.2-33.6	61.9	54.6-69.3				
30-44	186	-	-	7.5	3.5-11.5	16.7	10.9-22.5	75.8	70.1-81.5				
45-69	120	-	-	5.8	1.2-10.5	15.0	6.8-23.2	79.2	69.7-88.6				
18-69	503 - 8.6 4.5-12.6 20.4 16.8-24.0 71.0 67.2-74.8												

Table 150 shows that 69.4% (95% CI = 65.1-73.8) of Nauruan women were classified as obese, 19.3% (95% CI = 15.4-23.1) as overweight, 11.1% (95% CI = 8.4-13.8) as having normal weight and 0.2% (95% CI = 0.0-0.7) as underweight.

A significantly higher proportion of Nauruan women aged 18-29 were classified as having normal weight

(17.4%, 95% CI =11.4-23.4) compared to those aged 30-44 years (5.6%, 95% CI = 2.4-8.9). A significantly higher proportion of women aged 30-44 years (80.5%, 95% CI = 75.2-85.8) and 45-69 (75.3%, 95% CI = 70.0-80.7) were classified as obese than those aged 18-29 (57.1%, 95% CI = 48.9-65.2).

There were no statistically significant differences between the three age groups for the other classifications.

Table 150. Percentage of women in the specific BMI classifications

	BMI classifications													
Λ αι α	Women													
Age group (years)	n	% Under- weight < 18.5	95% CI	% Normal weight 18.5-24.9	95% CI	% Over- weight 25.0-29.9	95% CI	% Obese ≥ 30.0	95% CI					
18-29	184	0.5	0.0-1.7	17.4	11.4-23.4	25.0	17.1-32.9	57.1	48.9-65.2					
30-44	195	0.0	0.0-0.0	5.6	2.4-8.9	13.8	9.2-18.5	80.5	75.2-85.8					
45-69	154	0.0	0.0-0.0	7.8	4.1-11.5	16.9	11.4-22.3	75.3	70.0-80.7					
18-69	533 0.2 0.0-0.7 11.1 8.4-13.8 19.3 15.4-23.1 69.4 65.1-73.8													

Table 151 shows that overall, 70.2% (95% CI = 67.2-73.3) were classified as obese, 19.8% (95% CI = 17.8-21.9) as overweight, 9.8% (95% CI = 6.6-13.1) as having normal weight and 0.1% (95% CI = 0.0-0.3) as underweight.

Significantly more Nauruans aged 18-29 were classified as overweight (25.9%, 95% CI = 22.4-29.5) compared to those aged 30-44 years (15.4%, 95% CI = 11.8-19.0) and 45-69 (16.0%, 95% CI = 13.0-19.1). Significantly more Nauruans aged 30-44 years (77.9%, 95% CI = 74.4-81.5) and 45-69 (77.1%, 95% CI = 73.6-80.5) were classified as obese than those aged 18-29 (59.5%, 95% CI = 53.6-65.3).

There was no statistically significant difference between men and women.

Table 151. Percentage in the specific BMI classifications, both sexes combined

	BMI classifications													
٨٥٥	Both sexes													
Age group (years)	n	% Under- weight < 18.5	95% CI	% Normal weight 18.5-24.9	95% CI	% Over- weight 25.0-29.9	95% CI	% Obese ≥ 30.0	95% CI					
18-29	381	0.3	0.0-0.9	14.3	8.9-19.8	25.9	22.4-29.5	59.5	53.6-65.3					
30-44	381	0.0	0.0-0.0	6.7	4.0-9.4	15.4	11.8-19.0	77.9	74.4-81.5					
45-69	274	0.0	0.0-0.0	6.9	3.9-9.9	16.0	13.0-19.1	77.1	73.6-80.5					
18-69	1036 0.1 0.0-0.3 9.8 6.6-13.1 19.8 17.8-21.9 70.2 67.2-73.3													

Table 152 shows that overall, 90.1% (95% CI = 86.9-93.2) were classified as overweight (BMI≥25).

Among women, significantly more 30-44 year olds (94.4%, 95% CI = 91.1-97.6) and 45-69 year olds (92.2%, 95% CI = 88.5-95.9) were overweight than those aged 18-29 (82.1%, 95% CI = 76.1-88.0).

There were no significant differences between men and women and between the three age groups.

Table 152. Percentage classified as overweight (BMI ≥ 25)

	BMI ≥ 25													
Vac akorio		Men				Womer	า		Both sexes					
Age group (years)	n	% BMI ≥ 25	95% CI		n	% BMI ≥ 25	95% CI		n	% BMI ≥ 25	95% CI			
18-29	197	88.8	83.3-94.4		184	82.1	76.1-88.0		381	85.4	80.1-90.7			
30-44	186	92.5	88.5-96.5		195	94.4	91.1-97.6		381	93.3	90.6-96.0			
45-69	120	94.2	89.5-98.8		154	92.2	88.5-95.9		274	93.1	90.1-96.1			
18-69	503	91.4	87.4-95.5		533	88.7	86.0-91.4		1036	90.1	86.9-93.2			

4.20.3 Waist and hip circumference

Waist circumference is a measure of central obesity and a measure of the risk of cardiovascular diseases. The WHO cut-off points for increased risk of NCDs are: waist circumference \geq 102cm for men and \geq 88cm for women; waist-hip ratio of \geq 0.90 for men and \geq 0.85 for women.

Table 153 shows that the mean waist circumference of men was 105.2 cm (95% CI = 103.1-107.3) and 103.0 cm (95% CI = 100.7-105.2) for women. There was no statistically significant difference in mean waist circumference between men and women.

Younger men aged 18-29 had a significantly lower mean waist circumference (98.6 cm, 95% CI = 95.3-101.9) than older men aged 30-44 years (107.0 cm, 95% CI = 104.5-109.6) and 45-69 (113.9 cm, 95% CI = 109.4-118.4). Younger women aged 18-29 also had a significantly lower mean waist circumference (95.9 cm, 95% CI = 91.3-100.5) than older women aged 30-44 years (105.5 cm, 95% CI = 103.6-107.4) and 45-69 (110.2 cm, 95% CI = 105.2-115.1).

Table 153. Mean waist circumference (cm)

	Mean waist circumference (cm)												
Age		Me	en			Wom	en						
group (years)	n	Mean	95% CI		n	Mean	95% CI						
18-29	199	98.6	95.3-101.9		180	95.9	91.3-100.5						
30-44	187	107.0	104.5-109.6		201	105.5	103.6-107.4						
45-69	116	113.9	109.4-118.4		153	110.2	105.2-115.1						
18-69	502	502 105.2 103.1-107.3 534 103.0 100.7-105.2											

Table 154 shows that the mean hip circumference of men was 110.9 cm (95% CI = 107.2-114.7) and 115.3 cm (95% CI = 112.4-118.1) for women. There was no statistically significant difference between men and women.

Among women, those aged 45-69 had significantly higher mean hip circumference (115.3 cm, 95% CI = 112.4-118.1) than those aged 18-29 (109.3 cm, 95% CI = 103.2-115.4).

Table 154. Mean hip circumference (cm)

	Hip circumference (cm)													
Age		Men Women												
group (years)	n	Mean	95% CI	n	Mean	95% CI								
18-29	199	106.8	102.0-111.6	180	109.3	103.2-115.4								
30-44	187	112.9	106.8-119.0	201	116.3	113.3-119.2								
45-69	116	115.1	111.1-119.1	152	122.8	117.7-127.9								
18-69	502	110.9	107.2-114.7	533	115.3	112.4-118.1								

Table 155 shows that the mean waist-hip ratio of men was 1.0 (95% CI = 1.0-1.0) and 0.9 for women (95% CI = 1.0-1.0) 0.9-0.9). There was statistically significant difference between men and women, and none between the three age groups.

Table 155. Mean waist-hip ratio

	Mean waist / hip ratio												
Age		Men				Wome	n						
group (years)	n	Mean	95% CI		n	Mean	95% CI						
18-29	199	0.9	0.9-1.0		180	0.9	0.9-0.9						
30-44	187	1.0	0.9-1.0		201	0.9	0.9-0.9						
45-69	116	1.0	1.0-1.0		152	0.9	0.9-0.9						
18-69	502	1.0	1.0-1.0		533	0.9	0.9-0.9						

4.20.4 Blood pressure

As part of the STEP 2 protocol, survey participants had their blood pressure measured. Respondents were also asked whether they have ever had their blood pressure measured by a doctor or other health worker, whether they have ever been told that they have high blood pressure, whether they have been told in the last 12 months, whether they were currently receiving any treatment for raised blood pressure, and whether they have sought treatment from a traditional healer.

The STEPS protocol considers those of having a raised blood pressure if they have:

- a mean systolic blood pressure (SBP) of ≥ 140 mmHg, whether or not they have previously been told by a health worker that they have high blood pressure, OR
- a mean diastolic blood pressure (DBP) of \geq 90 mmHg, whether or not they have previously been told by a health worker that they have high blood pressure, OR
- normal mean systolic and diastolic blood pressures (i.e. normotensive) AND who were currently receiving anti-hypertensive medication, whether or not they have previously been told by a health worker that they have high blood pressure.

Those respondents who reported having been previously told by a health worker that they have high blood pressure, but who were normotensive and NOT on anti-hypertensive medication, were NOT included among those considered to have hypertension.

Table 156 shows that overall, the mean systolic blood pressure was 122.2 mm Hg (95% CI = 121.2-123.3). Men had significantly higher mean systolic blood pressure than women – 126.7 mmHg (95% CI = 125.3-128.0) for men and 118.1 mmHg (95% CI = 116.8-119.4) for women.

The mean systolic blood pressure increased with age – 116.6 mmHg (95% CI = 115.1-118.2) among 18-29 year olds, 121.5 mmHg (95% CI = 119.7-123.4) among 30-44 year olds and 132.1 mmHg (95% CI = 129.6-134.5) among 45-69 year olds. Among men, the mean systolic blood pressure of 45-69 year olds (131.4 mmHg, 95%) CI = 128.9-133.9) was significantly higher than that of 18-29 year olds (123.4 mmHg, 95% CI = 121.3-125.5). Among women, the mean systolic blood pressure increased with age – 110.6 mmHg (95% CI = 108.9-112.3) among 18-29 year olds, 115.3 mmHg (95% CI = 112.6-118.0) among 30-44 year olds and 132.6 mmHg (95% CI = 129.5-135.6) among 45-69 year olds.

Table 156. Mean systolic blood pressure

	Mean systolic blood pressure (mmHg)													
Age group		Men				Wome	n		Both sexes					
(years)	n	Mean	95% CI		n	Mean	95% CI		n	Mean	95% CI			
18-29	201	123.4	121.3-125.5		203	110.6	108.9-112.3		404	116.6	115.1-118.2			
30-44	188	127.3	124.5-130.0		217	115.3	112.6-118.0		405	121.5	119.7-123.4			
45-69	123	131.4	128.9-133.9		163	132.6	129.5-135.6		286	132.1	129.6-134.5			
18-69	512	126.7	125.3-128.0		583	118.1	116.8-119.4		1095	122.2	121.2-123.3			

Table 157 shows that overall, the mean diastolic blood pressure was 80.2 mmHg (95% CI = 78.8-81.5). There was no statistically significant difference between men and women.

The mean diastolic blood pressure increased with age -76.4 mmHg (95% CI = 74.9-77.8) for 18-29 year olds, 81.6 mmHg (95% CI = 79.8-83.3) for 30-44 year olds and 84.5 mmHg (95% CI = 82.6-86.4) among 45-69 year olds.

Among men, the mean diastolic blood pressure of those aged 30-44 years (83.7 mmHg, 95% CI = 81.9-85.4) and 45-69 (83.3 mmHg, 95% CI = 81.4-85.2) were significantly higher than those aged 18-29 (77.5 mmHg, 95% CI = 76.0-79.0). Among women, the mean diastolic blood pressure of those aged 45-69 (85.5 mmHg, 95% CI = 82.8-88.2) was significantly higher than that of those aged 18-29 (75.3 mmHg, 95% CI = 73.5-77.2) and 30-44 years (79.3 mmHg, 95% CI = 77.1-81.5).

Table 157. Mean diastolic blood pressure

	Mean diastolic blood pressure (mmHg)													
Age group		Men				Wome	n	Both sexes			(es			
(years)	n	Mean	95% CI		n	Mean	95% CI		n	Mean	95% CI			
18-29	201	77.5	76.0-79.0		203	75.3	73.5-77.2		404	76.4	74.9-77.8			
30-44	188	83.7	81.9-85.4		217	79.3	77.1-81.5		405	81.6	79.8-83.3			
45-69	123	83.3	81.4-85.2		163	85.5	82.8-88.2		286	84.5	82.6-86.4			
18-69	512	81.1	80.0-82.2		583	79.3	77.6-81.1		1095	80.2	78.8-81.5			

Table 158 shows that overall, 23.5% (95% CI = 21.0-25.9), excluding those on medication, had raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg. There was no statistically significant difference between men and women.

The proportion of Nauruans with raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg, excluding those on medication, increased with age – 10.0% (95% CI = 6.7-13.3) of 18-29 year olds, 24.5% (95% CI = 20.1-29.0) of 30-44 year olds and 45.1% (95% CI = 39.1-51.0) of 45-69 year olds.

Among men, a significantly higher proportion of those aged 30-44 years (30.6%, 95% CI = 23.2-38.1) and 45-69 (42.6%, 95% CI = 33.8-51.4) had raised blood pressure SBP ≥ 140 and/or DBP ≥ 90 than those aged 18-29 (13.9%, 95% CI = 9.3-18.6). Among women, the proportion of those with raised blood pressure SBP ≥ 140 and/or DBP ≥ 90 increased with age – 6.4% (95% CI = 3.3-9.5) of 18-29 year olds, 17.8% (95% CI = 11.7-23.9) of 30-44 year olds and 47.0% (95% CI = 40.1-53.9) of 45-69 year olds.

Table 158. Percentage with raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg, excluding those on medication

	SBP ≥ 140	and/or D	BP ≥ 90 mmH	g, e	excluding	those on n	nedication for r	ais	ed blood	pressure	
Age group		Men				Wome	n			Both sex	kes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	201	13.9	9.3-18.6		202	6.4	3.3-9.5		403	10.0	6.7-13.3
30-44	186	30.6	23.2-38.1		213	17.8	11.7-23.9		399	24.5	20.1-29.0
45-69	115	42.6	33.8-51.4		151	47.0	40.1-53.9		266	45.1	39.1-51.0
18-69	502	26.5	23.3-29.7		566	20.6	17.3-23.9		1068	23.5	21.0-25.9

Table 159 shows that 25.3% (95% CI = 23.0-27.5) overall had raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg or were currently on medication for raised blood pressure. There was no significant difference between men and women.

The proportion of Nauruans with raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg or were currently on medication for raised blood pressure increased with age - 10.2% (95% CI = 6.9-13.6) of 18-29 year olds, 25.6% (95% CI = 21.1-30.1) of 30-44 year olds and 48.9% (95% CI = 42.6-55.1) of 45-69 year olds.

Among men, a significantly higher proportion of 45-69 year olds (46.3%, 95% CI = 36.9-55.8) had raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg or were currently on medication for raised blood pressure than those aged 18-29 (13.9%, 95% CI = 9.3-18.6). Among women, the proportion of those with raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg or were currently on medication for raised blood pressure increased with age -6.9% (95% CI = 3.3-10.5) of 18-29 year olds, 19.4% (95% CI = 13.4-25.3) of 30-44 year olds and 50.9% (95% CI = 43.6-58.3) of 45-69 year olds.

Table 159. Percentage with raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg or were currently on medication for raised blood pressure

	SBP ≥ 140 and/or DBP ≥ 90 mmHg or currently on medication for raised blood pressure														
Age group		Men				Wome	n			Both sex	xes				
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI				
18-29	201	13.9	9.3-18.6		203	6.9	3.3-10.5		404	10.2	6.9-13.6				
30-44	188	31.4	24.3-38.5		217	19.4	13.4-25.3		405	25.6	21.1-30.1				
45-69	123	46.3	36.9-55.8		163	50.9	43.6-58.3		286	48.9	42.6-55.1				
18-69	512	27.9	25.0-30.7		583	22.8	19.6-26.1		1095	25.3	23.0-27.5				

Table 160 shows that 7.6% (95% CI = 5.9-9.3) overall, excluding those on medication, had raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg. There was no statistically significant difference between men and women.

The proportion of Nauruans with raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg, excluding those on medication, increased with age - 1.7% (95% CI = 0.5-2.9) of 18-29 year olds, 8.0% (95% CI = 5.5-10.4) of 30-44 year olds and 17.2% (95% CI = 11.1-23.2) of 45-69 year olds.

Among men, a significantly higher proportion of 30-44 year olds (9.7%, 95% CI = 6.4-12.9) and 45-69 year olds (12.2%, 95% CI = 5.6-18.7) had raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg than those aged 18-29 (2.0%, 95% CI = **0.0-4.3**). Among women, excluding those on medication for raised blood pressure, a significantly higher proportion of 45-69 year olds had raised blood pressure SBP \geq 140 and/or DBP \geq 90 mmHg (21.2%, 95% CI = 13.0-29.4) than those aged 18-29 (1.5%, 95% CI = 0.0-3.4) and 30-44 years (6.1%, 95% CI = 1.6-10.6).

Table 160. Percentage with raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg, excluding those on medication for raised blood pressure

	SBP ≥ 160	and/or DI	3P ≥ 100 mmH	lg,	excluding	those on r	medication for	rais	sed blood	pressure	
Age group		Men				Wome	n			Both se	kes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	201	2.0	0.0-4.3		202	1.5	0.0-3.4		403	1.7	0.5-2.9
30-44	186	9.7	6.4-12.9		213	6.1	1.6-10.6		399	8.0	5.5-10.4
45-69	115	12.2		151	21.2	13.0-29.4		266	17.2	11.1-23.2	
18-69	502	7.1	5.0-9.2		566	8.1	5.8-10.3		1068	7.6	5.9-9.3

Table 161 shows that 9.8% (95% CI = 8.1-11.4) overall had raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg or were currently on medication for raised blood pressure.

The proportion of Nauruans who had raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg or were currently on medication for raised blood pressure increased with age - 2.0% (95% CI = 0.9-3.0) among those aged 18-29, 9.3% (95% CI = 6.9-11.7) among those aged 30-44 years and 23.0% (95% CI = 16.4-29.5) among those aged 45-69.

Among men, a significantly higher proportion of those aged 30-44 years (10.6%, 95% CI = 6.9-14.4) and 45-69 (17.9%, 95% CI = 11.2-24.6) had raised blood pressure or were currently on medication for raised blood pressure than those aged 18-29 (2.0%, 95% CI = 0.0-4.3). Among women, a significantly higher proportion of those aged 45-69 had raised blood pressure or were currently on medication for raised blood pressure (27.0%, 95% CI = 17.2-36.8) compared to those aged 18-29 (2.0%, 95% CI = 0.1-3.8).

There was no statistically significant difference between men and women.

Table 161. Percentage with raised blood pressure SBP \geq 160 and/or DBP \geq 100 mmHg or currently on medication for raised blood pressure

	SBP ≥ 160 and/or DBP ≥ 100 mmHg or currently on medication for raised blood pressure														
Age group		Men				Wome	n			Both sex	kes				
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI				
18-29	201	2.0	0.0-4.3		203	2.0	0.1-3.8		404	2.0	0.9-3.0				
30-44	188	10.6	6.9-14.4		217	7.8	3.2-12.4		405	9.3	6.9-11.7				
45-69	123	17.9	11.2-24.6		163	27.0	17.2-36.8		286	23.0	16.4-29.5				
18-69	512	8.9	6.8-10.9		583	10.6	8.4-12.9		1095	9.8	8.1-11.4				

Table 162 shows that among men who had raised blood pressure SBP≥ 140 and/or DBP≥90 or were currently on medication, majority (93.1%, 95% CI = 87.1-99.2) were not on medication and had raised blood pressure SBP≥ 140 and/or DBP≥90; 4.1% (95% CI = 0.5-7.7) were on medication and had raised blood pressure SBP≥ 140 and/or DBP≥90; and 2.8% (95% CI = 0.0-6.2) were on medication and had SBP < 140 and DBP < 90.

There was no difference between the three age groups.

Table 162. Percentage of men with treated and/or controlled raised blood pressure

	Men with treated and/or controlled raised blood pressure												
		Men wit	h treated and/o	or controlled raised	blood pressure	e							
				Men									
Age group (years)	n	% On medication and SBP < 140 and DBP < 90	95% CI	% On medication and SBP ≥ 140 and/or DBP ≥ 90	95% CI	% Not on medi- cation and SBP ≥ 140 and/or DBP ≥ 90	95% CI						
18-29	28	0.0	0.0-0.0	0.0	0.0-0.0	100.0	100.0-100.0						
30-44	58	1.7	0.0-5.6	1.7	0.0-5.6	96.6	91.1-100.0						
45-69	57	5.3	0.0-12.7	8.8 1.9-15.6		86.0	73.6-98.3						
18-69	143	2.8	0.0-6.2	4.1	0.5-7.7	93.1	87.1-99.2						

Table 163 shows that among women who had raised blood pressure SBP≥ 140 and/or DBP≥90 or were currently on medication, majority (87.7%, 95% CI = **79.7-95.7**) were not on medication and had raised blood pressure SBP≥ 140 and/or DBP≥90; 3.0% (95% CI = 0.2-5.7) were on medication and had raised blood pressure of SBP≥ 140 and/or DBP≥90; and 9.4% (95% CI: = 3.2-15.5) were on medication and had SBP < 140 and DBP < 90.

There was no statistically significant difference between the three age groups.

Table 163. Percentage of women with treated and/or controlled raised blood pressure

				or controlled raise			
				Women	<u> </u>		
Age group (years)	n	% On medication and SBP < 140 and DBP < 90	95% CI	% On medication and SBP ≥ 140 and/or DBP ≥ 90	95% CI	% Not on medi- cation and SBP ≥ 140 and/or DBP ≥ 90	95% CI
18-29	14	7.1	0.0-19.7	0.0	0.0-0.0	92.9	80.4-100.0
30-44	41	9.8	0.4-19.1	0.0	0.0-0.0	90.2	80.9-99.6
45-69	83	9.6	1.7-17.6	4.8	0.6-9.1	85.5	74.9-96.2
18-69	138	9.4	3.2-15.5	3.0	0.2-5.7	87.7	79.7-95.7

Table 164 shows that among those who had raised blood pressure of SBP \geq 140 and/or DBP \geq 90 or were currently on medication, the majority (90.6%, 95% CI: = 85.3-95.8) were not on medication and had raised blood pressure of SBP \geq 140 and/or DBP \geq 90; 3.6% (95% CI: = 1.6-5.6) were on medication and had raised blood pressure of SBP \geq 140 and/or DBP \geq 90; and 5.8% (95% CI: = 2.3-9.4) were on medication and had SBP < 140 and DBP < 90.

There were no significant differences between men and women and between the three age groups.

Table 164. Percentage with treated and/or controlled raised blood pressure, both sexes combined

		Percentage w	vith treated and	or controlled raise	ed blood pressu	re	
				Both sexes			
Age group (years)	n	% On medication and SBP < 140 and DBP < 90	95% CI	% On medication and SBP ≥ 140 and/or- DBP ≥ 90	95% CI	% Not on medication and SBP ≥ 140 and/ orDBP ≥ 90	95% CI
18-29	42	2.5	0.0-7.5	0.0	0.0-0.0	97.5	92.5-100.0
30-44	99	4.6	0.7-8.5	1.1	0.0-3.5	94.3	90.1-98.5
45-69	140	7.8	2.7-12.9	6.5	2.8-10.2	85.7	77.4-94.1
18-69	281	5.8	2.3-9.4	3.6	1.6-5.6	90.6	85.3-95.8

4.22. Biochemical measurements

4.19.1 Fasting blood glucose and diabetes

To measure fasting blood sugar levels, capillary whole blood was drawn using the finger prick method. Non-fasting participants were excluded for these measures in STEP 3. Estimates of elevated blood glucose prevalence were calculated based on the capillary whole blood glucose test results and by following the WHO guidelines for defining and elevated fasting plasma blood glucose:

- fasting capillary plasma equivalent value of glucose was ≥ 7.0 mmol/l (126 mg/dl) AND whether or not they have previously been told by a health worker that they have diabetes, OR
- normal capillary plasma equivalent value of glucose was < 7.0 mmol/l AND were currently receiving antidiabetes medication prescribed by a health worker.

Note that these calculated values do not reflect diabetes rates. A second raised fasting blood glucose result is required to confirm diagnosis. As such, the term elevated blood glucose is used in this report. Participants who have been advised by a health worker that they have diabetes but who had normal fasting blood glucose, and who were NOT on anti-diabetes medication or on a special diet prescribed by a health worker, were NOT included among those considered as having elevated blood glucose.

Table 165 shows that the mean fasting plasma glucose overall was 6.5 mmol/l.

Older Nauruans aged 45-69 had a significantly higher mean fasting plasma glucose (7.9 mmol/l, 95% CI = 6.1-6.8) than younger ones aged 18-29 (5.5 mmol/l, 95% CI = 5.1-5.9).

There was no statistically significant difference between men and women.

Table 165. Mean fasting plasma glucose (mmol/l)

	Mean fasting plasma glucose (mmol/l)														
Age group		Men				Wome	n			Both sex	œs				
(years)	n	Mean	95% CI		n	Mean	95% CI		n	Mean	95% CI				
18-29	193	5.3	4.9-5.8		197	5.7	5.3-6.1		390	5.5	5.1-5.9				
30-44	182	6.6	6.0-7.2		210	6.5	5.8-7.1		392	6.5	6.1-7.0				
45-69	118	7.6	7.1-8.1		157	8.2	7.6-8.8		275	7.9	7.5-8.4				
18-69	493	6.3	5.9-6.8		564	6.6	6.3-6.9		1057	6.5	6.1-6.8				

Table 166 shows that overall, 17.1% (95% CI = 10.9-23.2) were categorized as having impaired fasting glycaemia – 17.6% (95% CI = 11.0-24.3) of men and 16.5% (95% CI = 10.3-22.7) of women; and 16.1% (95% CI = 8.9-23.3) of Nauruans aged 18-29 years and 21.0% (95% CI = 15.7-26.4) of those aged 45-69 years.

There were no statistically significant differences between men and women and between the two age groups.

Table 166. Percentage categorized as having impaired fasting glycaemia

		Perc	entage catego	rize	ed as h	aving impaire	ed fasting glyca	em	ıia*			
Age group		Men				Wome	n			Both sex	kes	
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI	
18-29 193 17.6 10.1-25.1 197 14.7 7.0-22.4 390 16.1 8.9-23.3												
30-44	182	17.0	7.6-26.5		210	13.3	5.4-21.3		392	15.3	6.9-23.7	
45-69	118	18.6	11.7-25.6		157	22.9	16.7-29.2		275	21.0	15.7-26.4	
18-69	18-69 493 17.6 11.0-24.3 564 16.5 10.3-22.7 1057 17.1 10.9-23.2											
	*Impaired fasting glycaemia is defined as either plasma venous value: ≥ 6.1mmol/l (110mg/dl) and < 7.0mmol/l (126mg/dl)											

Table 167 shows that overall, 21.9% (95% CI = 19.0-24.8) had raised blood glucose or were currently on medication for diabetes.

A significantly higher proportion of older Nauruans aged 45-69 (41.3%, 95% CI = 34.5-48.2) had raised blood glucose or were currently on medication compared to younger ones aged 18-29 (8.8%, 95% CI = 5.712.0).

There was no statistically significant difference between men and women.

Table 167. Percentage categorized as having raised blood glucose or were currently on medication for diabetes

	Raised blood glucose or currently on medication for diabetes**												
Age group		Men				Wome	n			Both sex	kes .		
(years)	(years) n % 95% Cl n % 95% Cl n %												
18-29 193 6.7 3.7-9.8 197 10.7 5.8-15.5 390 8.8													
30-44	182	23.6	17.9-29.3		210	22.9	17.3-28.4		392	23.3	19.4-27.2		
45-69	118	35.6	27.6-43.6		157	45.9	37.1-54.6		275	41.3	34.5-48.2		
18-69	18-69 493 19.7 15.6-23.7 564 24.1 20.8-27.3 1057 21.9												
**	** Raised blood glucose is defined as plasma venous value: ≥ 7.0 mmol/l (126 mg/dl)												

Table 168 shows that overall, 6.1% (95% CI = 4.4-7.9) were currently on medication for diabetes.

A significantly higher proportion of Nauruans aged 45-69 (17.1%, 95% CI = 12.9-21.3) were on medication compared to those aged 18-29 (0.6%, 95% CI = 0.0-1.3).

There was no statistically significant difference between men and women.

Table 168. Percentage currently on medication for diabetes

	Currently on medication for diabetes														
Age group (years)		Men				Wome	n			Both sex	«es				
	n	%	95% CI		n	%	95% CI		n	%	95% CI				
18-29	271	0.7	0.0-1.8		266	0.4	0.0-1.1		537	0.6	0.0-1.3				
30-44	229	3.9	1.9-6.0		276	6.9	2.8-11.0		505	5.4	3.4-7.3				
45-69	151	15.2	10.1-20.3		193	18.7	13.2-24.1		344	17.1	12.9-21.3				
18-69	651	5.1	3.2-7.1		735	7.1	4.8-9.5		1386	6.1	4.4-7.9				

For elevated total blood cholesterol, a cut-off point \geq 5.0 mmol/l (or \geq 190 mg/dl) was used to classify respondents as being at higher risk for coronary artery disease.

Table 169 shows that overall, the mean total cholesterol overall was 3.8 mmol/l (95% CI = 3.5-4.1).

There were no statistically significant differences between men and women and between the three age groups.

Table 169. Mean total cholesterol (mmol/l)

	Mean total cholesterol (mmol/l)														
Age group		Men				Wome	n			Both sex	kes .				
(years)	n	Mean	95% CI		n	Mean	95% CI		n	Mean	95% CI				
18-29	193	3.4	3.2-3.7		197	3.6	3.4-3.9		390	3.6	3.3-3.8				
30-44	182	182 4.1 3.4-4.7				3.9	3.6-4.2		393	4.0	3.5-4.4				
45-69	118	4.0	3.4-4.6		157	4.3	4.1-4.5		275	4.2	3.9-4.4				
18-69	493	3.8	3.3-4.2		565	3.9	3.7-4.1		1058	3.8	3.5-4.1				

Table 170 shows that overall, 19.6% (95% CI = 12.1-27.0) had total cholesterol of \geq 5.0 mmol/l or \geq 190 mg/dl or were currently on medication for raised cholesterol.

A significantly higher proportion of Nauruans aged 45-69 years had total cholesterol of \geq 5.0 mmol/l or \geq 190 mg/dl or were currently on medication for raised cholesterol (30.8%, 95% CI = 22.5-39.1) than those aged 18-29 (12.0%, 95% CI = 5.6-18.4).

Among women, a significantly higher proportion of 45-69 year olds had total cholesterol of \geq 5.0 mmol/l or \geq 190 mg/dl or were currently on medication for raised cholesterol (33.8%, 95% CI = 23.8-43.7) than those aged 18-29 (11.2%, 95% CI = 5.3-17.0). There was no statistically significant difference between men and women.

Table 170. Percentage with total cholesterol \geq 5.0 mmol/l or \geq 190 mg/dl or who were currently on medication for raised cholesterol

	Total cholesterol ≥ 5.0 mmol/l or ≥ 190 mg/dl or currently on medication for raised cholesterol														
Age group		Men				Wome	n			Both sex	xes				
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI				
18-29	193	13.0	4.3-21.6		197	11.2	5.3-17.0		390	12.0	5.6-18.4				
30-44	182	22.0	6.8-37.1		211	18.5	10.9-26.1		393	20.3	9.7-30.9				
45-69	118	27.1	11.0-43.3		157	33.8	23.8-43.7		275	30.8	22.5-39.1				
18-69	493	19.6	8.2-30.9		565	19.6	14.2-25.0		1058	19.6	12.1-27.0				

Table 171 shows that overall, 7.9% (95% CI = 2.8-12.9) had total cholesterol \geq 6.2 mmol/l or \geq 240 mg/dl or were currently on medication for raised cholesterol.

There was no statistically significant difference between men and women and between the three age groups.

Table 171. Percentage with total cholesterol \geq 6.2 mmol/l or \geq 240 mg/dl or who were currently on medication for raised cholesterol

	Total chole	esterol ≥ 6	.2 mmol/l or ≥	24	10 mg/dl o	r currently	on medication	n fo	r raised cl	holesterol	
Age group	Men				Women				Both sexes		
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
18-29	193	3.6	0.0-7.5		197	3.0	0.0-6.4		390	3.3	0.3-6.4
30-44	182	11.5	1.0-22.0		211	7.6	3.5-11.7		393	9.6	2.5-16.8
45-69	118	14.4	3.2-25.6		157	11.5	4.0-18.9		275	12.8	4.6-21.0
18-69	493	9.0	1.9-16.2		565	6.8	3.0-10.5		1058	7.9	2.8-12.9

4.21.3 Haemoglobin

Table 172 shows that 35.2% (95% CI = 25.7-44.6) of women of child-bearing age had anaemia. There was no statistically significant difference between the age groups.

Table 172. Percentage of women of child-bearing age (CBA) with anaemia

Percentage of women (CBA) with anaemia						
Age group		Wom	ien			
(years)	n	% Anaemia	95% CI			
18-29	148	41.9	31.5-52.2			
30-44	155	26.5	16.1-36.8			
45-49	61	-	-			
18-49	364	35.2	25.7-44.6			

Table 173 shows that the mean haemoglobin level of women of child-bearing age was 13.0 g/dl (95% CI = 12.5-13.6). There was no statistically significant difference between the age groups.

Table 173. Mean haemoglobin (g/dl) of CBA women

Mean Haemoglobin (g/dl)							
Age group	Women						
(years)	n	Mean	95% CI				
18-29	148	13.0	12.1-13.9				
30-44	155	13.2	12.7-13.6				
45-49	61	-	-				
18-49	364	13.0	12.5-13.6				

4.23. Combined risk factors

The combination of risk factors for NCDs from STEP 1 and STEP 2 describes the percentage of survey participants with 0, 1-2, or 3-5 of the following risk factors:

- current daily smoker
- less than 5 servings of fruits & vegetables per day
- low level of activity (< 600 MET minutes)
- overweight or obese (BMI ≥ 25 kg/m2)
- raised BP (SBP ≥ 140 and/or DBP ≥ 90 mmHg or currently on medication for raised BP).

Table 174 shows that 35.9% (95% CI = 32.9-38.9) of men had 1-2 risk factors and 64.1% (95% CI = 61.1-67.1) had

3-5 risk factors.

A significantly higher proportion of older men aged 45-69 (79.8%, 95% CI = 71.4-88.2) had 3-5 risk factors compared to younger men aged 18-29 (51.6%, 95% CI = 44.0-59.3). However, twice the proportion of younger men aged 18-29 (48.4%, 95% CI = 40.7-56.0) had 1-2 risk factors compared to older men aged 45-69 (20.2%, 95% CI = 11.8-28.6).

Table 174. Percentage of men with 0, 1-2, or 3-5 risk factors

	Summary of combined risk factors									
A 610 6140 1110		Men								
Age group		% with 0	050/ 61	% with 1-2	050/ 61	% with 3-5	050/ 61			
(years)	n	risk factors 95% CI		risk factors	95% CI	risk factors	95% CI			
18-29	184	-	-	48.4	40.7-56.0	51.6	44.0-59.3			
30-44	176	-	-	32.4	24.5-40.3	67.6	59.7-75.5			
45-69	114	-	-	20.2	11.8-28.6	79.8	71.4-88.2			
18-69	474	-	-	35.9	32.9-38.9	64.1	61.1-67.1			

Table 175 shows that 31.0% (95% CI = 27.1-35.0) of women had 1-2 risk factors and 69.0% (95% CI = 65.0-72.9) had 3-5 risk factors.

A significantly higher proportion of younger women aged 18-29 years (40.4%, 95% CI = 33.4-47.5) had 1-2 risk factors compared to older women aged 45-69 years (17.0%, 95% CI = 11.8-22.2). However, a significantly higher proportion of older women aged 45-69 (83.0%, 95% CI = 77.8-88.2) had 3-5 risk factors compared to younger women aged 18-29 years (59.6%, 95% CI = 52.5-66.6).

Table 175. Percentage of women with 0, 1-2, or 3-5 of risk factors

			<u>, , , , , , , , , , , , , , , , , , , </u>							
	Summary of combined risk factors									
Δ		Women								
Age group (years)	n	% with 0 risk factors	95% CI	% with 1-2 risk factors	95% CI	% with 3-5 risk factors	95% CI			
18-29	178	-	-	40.4	33.4-47.5	59.6	52.5-66.6			
30-44	183	-	-	31.1	25.9-36.4	68.9	63.6-74.1			
45-69	147	-	-	17.0	11.8-22.2	83.0	77.8-88.2			
18-69	508	-	-	31.0	27.1-35.0	69.0	65.0-72.9			

Table 176 shows that overall, 33.4% (95% CI = 31.3-35.5) had 1-2 risk factors and 66.6% (95% CI = 64.5-68.7) had 3-5 risk factors.

A significantly higher proportion of Nauruans aged 18-29 years (44.3%, 95% CI = 38.7-49.9) had 1-2 risk factors compared to those aged 45-69 years (18.4%, 95% CI = 12.9-23.9); and a significantly higher proportion of Nauruans aged 45-69 years (81.6%, 95% CI = 76.1-87.1) had 3-5 risk factors compared to those aged 18-29 years (55.7%, 95% CI = 50.1-61.3).

There was no statistically significant difference between men and women.

Table 176. Percentage with 0, 1-2, or 3-5 of risk factors, both sexes combined

Summary of combined risk factors										
Vac akorin		Both sexes								
Age group (years)	n	% with 0 risk factors	95% CI	% with 1-2 risk factors	95% CI	% with 3-5 risk factors	95% CI			
18-29	362	-	-	44.3	38.7-49.9	55.7	50.1-61.3			
30-44	359	-	-	31.8	27.2-36.5	68.2	63.5-72.8			
45-69	261	-	-	18.4	12.9-23.9	81.6	76.1-87.1			
18-69	982	-	-	33.4	31.3-35.5	66.6	64.5-68.7			

Table 177 shows that overall, 24.9% (95% CI = 19.1-30.6) had 10-year CVD risk \geq 30%.

A significantly higher proportion of Nauruans men aged 55-69 years (31.1%, 95% CI = 19.7-42.5) had 10-year CVD risk \geq 30% compared to those aged 40-54 years (17.7%, 95% CI = 11.0-24.3).

There was no statistically significant difference between men and women.

Table 177. Percentage with a 10-year CVD risk ≥ 30% or with existing CVD

	Pei	rcentage o	of respondents	w	ith a 10-ye	ar CVD ris	$k \ge 30\%$ or with	ı ex	cisting CV	'D	
Age group		Men				Wome	n			Both se	xes
(years)	n	%	95% CI		n	%	95% CI		n	%	95% CI
40-54	113	17.7	11.0-24.3		130	28.6	15.8-41.5		243	23.2	15.5-31.0
55-69	45	31.1	19.7-42.5		68	26.5	17.1-35.8		113	28.4	20.9-35.9
40-69	158	21.5	14.7-28.2		198	27.9	18.8-36.9		356	24.9	19.1-30.6

4. DISCUSSION AND CONCLUSIONS

This section summarizes key findings on the NCD risk factors in Nauru, which will provide an indication of the potential disease burden from developing and dying from an NCD.

Almost all adults in Nauru have several NCD risk factors – 33.4% had 1-2 risk factors and 66.6% had 3-5 risk factors. With 81.6% of those aged 45-69 and 55.7% of those aged 18-29 having 3-5 risk factors, Nauru faces a risk of bearing a substantial disease burden from NCDs.

Behavioural risk factors

Nearly half of the Nauruan population (46.3%) were current smokers with 47.4% of men and 45.3% of women being current smokers. Among men, those aged 18-29 were more likely to be smokers than those aged 45-69. Nearly 60% of current daily smokers were heavy users, smoking 15 or more cigarettes a day. A higher proportion of current daily smokers aged 45-69 than those aged 18-29 and a higher proportion of men than women smoked more than 25 cigarettes a day. Tobacco control measures and cessation support need to be considered to target these population groups. There is also a need to prevent sale of tobacco to minors and to prevent early smoking initiation as the mean initiation age of 16.4 years is lower than some Pacific Island countries. As there are indications of Nauruans using e-cigarettes, political commitment and measures will need to be undertaken to regulate sale and discourage use. Furthermore, with 69.1% of kava drinkers being likely to smoke tobacco during or after drinking kava, there is a need to change social norms around this practice.

More than a quarter of Nauruans (27.7%) were current drinkers, with younger Nauruans aged 18-29 years and 30-44 years being more likely to drink than those aged 45-69. Significantly more men than women were also drinkers. The mean number of drinking occasions was 5.5 in the past 30 days and the mean number of standard drinks per occasion was 13.7. Among current drinkers, 24.1% binge drank at least once in the past 30 days – men more so than women (36.1% compared to 12.8%); and younger Nauruans aged 18-29 (26.3%) and 30-44 years (29.0%) being more likely than those aged 45-69 (13.4%). It was also found that 81.8% of Nauruans have driven a motorized vehicle after having alcoholic drinks, more so among women (90.7%) than men (72.3%); and more so among Nauruans aged 45-69 (91.1%) than those aged 18-29 (77.9%) and 30-44 years (80.0%). This highlights a need to raise awareness of the harmful use of alcohol and to reduce it.

Compared to other Pacific Islands countries, Nauru's consumption of fruits and vegetables is very low – 61.3% did not consume any fruit and/or vegetables; 27.2% consumed 1-2 servings on average per day, 6.7% consumed 3-4 servings, and 4.7% consumed 5 or more servings. The mean number of days fruit was consumed in a typical week was 1.8 days and 2.5 days for vegetables; and the mean number of servings of fruit and/or vegetables consumed on average per day was 1.2. Efforts to promote the availability and consumption of fresh fruits and vegetables need to be scaled up.

Slightly more than half of the population always or often added salt before and when eating, particularly among those aged 18-29; 65.4% did so when cooking or preparing food at home; and 33.5% always or often consumed processed food high in salt. Overall, 13.6% reported that they consumed far too much salt, 21.3% that they consumed too much salt, 51.1% that they consumed just the right amount, 9.3% that they consumed too little and 4.6% that they consumed far too little. The majority understood the importance of lowering salt in the diet and that consuming too much could lead to health problems. Half of the population (53.1%) limited consumption of processed foods to control salt intake; 20.9% looked at salt or sodium content on food labels; and 24.4% bought low salt or sodium alternatives. Nauru will need to raise awareness on how much salt people are eating and that most are actually eating too much even though majority think they are consuming just the right amount.

Sugary drinks were consumed on an average 4.1 servings of sugary drinks per day; and on average 5.4 teaspoons of sugar added on to drinks per day. There were no significant differences between men and women and between the three age groups. With high obesity rates, Nauru will need to raise awareness on the risks of

consuming too much sugar and to look at other measures to reduce consumption, such as further taxation changes and controls on sales and use (e.g. in and around schools).

Nauruans are also relatively inactive with 39.8% not meeting the WHO recommendations on physical activity for health, especially women and Nauruans aged 45-69. Nearly half (44.7%) were engaged in low levels of physical activity, 18.4% in moderate levels and 36.9% in high levels. Programmes need to be designed that encourages and enables women and older persons to participate in physical activity in a safe manner.

Historical risk factors

Overall in Nauru, many have had their blood pressure and blood sugar measured though most have never had their cholesterol measured. Approximately one third had never had their blood pressure and blood sugar measured, and 78.7% had never had their cholesterol measured. Half of women aged 18-69 had ever been tested for cervical cancer and 35.3% have done a self-breast examination. Nearly half have been advised to reduce fat in the diet, to eat more fruit and vegetables and to do more physical activity, and 28.8% had been advised to quit using tobacco. Screening of high-risk individuals can be further improved, and a strong health system and community support would be needed to enhance early diagnosis.

Mental health

Mental health is also an important factor that affects behavioural risks and self-care. As only slightly more than half (58.5%) were assessed as well according to responses to the questions, mental well-being needs to be promoted and adequate counselling services as well as campaigns to reduce stigma surrounding mental disorders need to be implemented. Health and social work professionals also need to pay attention to emerging trends that may stress specific population groups, and take prompt action to address them.

Oral health

The state of our teeth and gums can have an impact of how people perceive and feel about themselves and affect their physical, mental, emotional and social well-being. As such, oral care practices are important. Overall, most have been to a dentist – 69.8% had been with no treatment required and 24.6% had been and needed an extraction or tooth filled. Although majority had not required any treatment when they visited the dentist, 58.5% of Nauruans had described their teeth as being in a painful state, 7.2% as being decayed and 11.8% as having loose or mobile teeth. It would be good to encourage regular visits, ensure there are sufficient dental facilities to provide this service, and control sales of food and drinks high in sugar content to prevent tooth decay and tooth loss.

Physical risk factors

The mean BMI of Nauruans was 34.4 kg/m2 with 90% of the population classified as overweight or obese, with a higher proportion of Nauruans aged 30-44 years and 45-69 being classified as obese. Compared to the first survey, there appears to be an increase in the prevalence of obesity. Therefore, consideration will have to be made on appropriate strategies to reduce overweight and obesity.

In Nauru, 25.3% had raised blood pressure of SBP ≥ 140 and/or DBP ≥ 90 mmHg or were currently on medication; and 9.8% had raised blood pressure of SBP \geq 160 and/or DBP \geq 100 mmHg or were currently on medication. Among those with raised blood pressure or were currently on medication, 90.6% were not on medication and had raised blood pressure, 3.6% were on medication and had raised blood pressure, and 5.8% were on medication and had normal blood pressure. Expansion of the WHO Package of Essential NCD Interventions (WHO PEN) protocol could help improve early diagnosis and adherence to treatment regimen.

Biochemical risk factors

The mean fasting blood glucose (plasma equivalent) was 6.5mmol/L or 116.6 mg/dl, and older Nauruans aged 45-69 year olds had a significantly higher mean than those aged 18-29 and 30-44 year olds. The proportion of Nauruans 17.1% were categorized as having impaired fasting glycemia; 21.9% had raised blood glucose (plasma equivalent) or were currently on medication for diabetes and 6.1% were currently on medication for diabetes.

Overall, 19.6% of Nauruans had total cholesterol of ≥ 5.0 mmol/l or ≥ 190 mg/dl or were currently on medication for raised cholesterol and 7.9% had total cholesterol ≥ 6.2 mmol/l or ≥ 240 mg/dl or were currently on medication for raised cholesterol. Nauru should make healthier choices and fresh local produce more affordable and accessible; promote consumption of healthier foods and water; promote healthy lifestyles through the healthy settings approach; and strengthen primary health care and NCD prevention and management through expansion of the WHO PEN protocols.

Separately, anaemia appears to be an issue among women of childbearing age where prevalence was 35.2%. Which is indicative of poor diets overall. Efforts to ensure iron supplementation during pregnancy will be critical along with wider efforts to improve dietary quality.

This report provides current information on the prevalence and magnitude of key NCDs and their modifiable risk factors. Broadly comparing this with data from the first survey allows Nauru to see what has improved and what has worsened and to inform allocation of resources and modification of interventions. Repeating the NCD STEPS survey in the future will allow monitoring of progress towards achieving the 9 voluntary global targets, mapping of trends over time, and inform interventions and strategic modifications required to reduce NCDs in the population.

5. RECOMMENDATIONS

In accordance to the objectives outlined in the global and regional action plans to reduce NCDs, the following strategies are recommended for Nauru:

Strengthen governance and leadership

- 1) Evaluate progress in implementation of the Noncommunicable Disease Strategic Action Plan 2015-2020 with all relevant stakeholders (e.g. ministries, civil society, communities).
- 2) Develop new multisectoral strategic health plan. Involve stakeholders from different sectors throughout the process to ensure ownership and buy-in.
- 3) Work with other sectors to integrate NCD issues and approaches in other sectoral plans.
- 4) Secure adequate and increase resources for health promotion and NCDs.

Support quality surveillance and public health information system and practices

- 1) Establish an ongoing and robust NCD STEPS surveillance system. Repeat NCD STEPS survey at 5- to 7-year intervals, preferably in 2020 and 2025.
- 2) Monitor trends and determinants of NCDs, and use data for action.
- 3) Utilize and strengthen other surveillance mechanisms and evaluation methods to measure effectiveness of strategies and interventions (e.g. school-based surveys, cross-sectional surveys).

Implement strategies to address NCD risk factors

- 1) Accelerate implementation of the WHO Framework Convention on Tobacco Control.
 - Increase excise tax to make tobacco products less affordable.
 - Strengthen enforcement of smoke-free law, particularly workplaces, to create smoke-free indoor environments and reduce exposure to ETS.
 - Strengthen enforcement of tobacco control regulations to stop sale to minors.
 - Amend tobacco control act and regulations to prohibit sale of single sticks and point-of-sale advertising.
 - Amend tobacco control regulations to include graphic health warnings.
 - Provide comprehensive cessation services.
 - Target women and youth in mass education programmes and campaigns.
- 2) Advance the implementation of the WHO Global Strategy to Reduce Harmful Use of Alcohol.
 - Increase excise tax to make alcohol less affordable.
 - Control access to alcohol particularly for youth.
 - Strengthen enforcement of law against driving under the influence of alcohol.
 - Regulate availability of alcohol by enforcing bylaw that requires license to sell, limit number of licenses given and control who is issued the license to sell.
- 3) Implement the WHO Global Strategy on Diet, Physical Activity and Health.
- 4) Develop guidelines or policy measures that engage relevant sectors, such as food producers and manufacturers, to:
 - reduce level of salt or sodium in prepared or processed food;
 - reduce free and added sugars in food and non-alcoholic beverages;
 - reduce portion size and energy density of foods;

- increase availability and affordability of fruit and vegetables.
- 5) Create health-enabling environments and settings (e.g. villages, workplaces, schools, markets).
 - Encourage establishment of local markets and sale of local fresh produce.
 - Enhance marketing of healthier foods.
 - Introduce policy to regulate sale of sugary drinks sold in and around schools.
 - Raise awareness on the health risks of consuming too much sugar.
 - Introduce settings-based policies to promote physical activity.
 - Promote preventive services (e.g. cancer screening, health checks).

Establish and maintain coalitions and partnerships

- 1) Build coalitions and partnerships across sectors to address NCD risk factors that are beyond the authority of the Ministry of Health, such as food importation, trade, tax, commercial investment and agriculture.
- 2) Collaborate with media organizations, faith-based organizations and nongovernmental organizations to implement programmes and support advocacy and education.

Strengthen health systems

- 1) Promote universal health coverage as a means of preventing and controlling NCDs.
- 2) Enhance access to essential NCD interventions through expansion of the WHO Package of Essential Noncommunicable Disease Interventions:
 - establish clinical practice guidelines;
 - scale up early detection;
 - provide counselling and patient education (e.g. brief advice);
 - provide cancer screening;
 - provide access to drug therapy to control diabetes, hypertension and myocardial infarction;
 - ensure availability of basic equipment and tools;
 - strengthen referral systems.
- 3) Assess gaps in manpower and facilities and develop a plan or alternative strategies to fill the gaps and meet demand for services:
 - dental care: prevention, early detection, service provision;
 - mental health: early detection, service provision and community support;
 - use of mobile clinics to visit communities and bring services closer to them.

ANNEX

Annex 1 Nauru STEPS Survey Questionnaire

The Supplementary Tables $\,$ - Nauru STEPS Data Book Annex 2

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WHO STEPS Q-by-Q Guide for Noncommunicable Disease Risk Factor Surveillance

Nauru 2015

Survey Info	ormation	
Location and Date	Response	Code
Cluster/Centre/Village ID		
Enter Cluster, Centre or Village ID from list provided.		
Cluster/Centre/Village name		
Enter Cluster, Centre or Village name as appropriate.		
Interviewer ID		
Enter interviewer's identification.		
Date of completion of the instrument		
Enter date when instrument actually completed.	dd mm year	
Consent, Interview Language and Name	Response	Code
Consent has been read and obtained	Yes 1	15
Select relevant response.	No 2 If NO, END	l5
Interview Language [Insert Language]	English 1 Nauruan 2	
Select relevant response.	Both (English & Nauruan 3	16
Time of interview		
(24 hour clock)	L	17
Enter time interview started.	hrs mins	
Family Surname		18
Enter family surname (reassure the participant on the confidential nature of		10
First Name		
Enter first name of respondent (reassure the participant on the confidential		19
nature of this information and that this is only needed for follow up).		
Other Name		l9b
Enter any other name that you are known of – If none please enter "None" Additional information that may be helpful		
Additional Information that may be helpful		

Contact phone number where possible	
Enter phone number (reassure the participant on the confidential nature of	I10
this information and that this is only needed for follow up).	

CORE: Demographic Information Question Sex (Record Male / Female as observed) Select Male / Female as observed. What is your date of birth? Don't Know 77 77 7777 C4 Response Code Code Temale 2 C1 C1 C2	Step 1 Demo	graphic Informa	tion	
Question Response Code Sex (Record Male / Female as observed) Male 1 Select Male / Female as observed. Female 2 What is your date of birth? If known, Go to C2	CORE: Demographic Information			
Sex (Record Male / Female as observed) Select Male / Female as observed. Male 1 Female 2 What is your date of birth? Don't Know 77 77 7777 C2	9 1	Res	sponse	Code
Select Male / Female as observed. Female 2 What is your date of birth? Don't Know 77 77 7777 C2	Sex (Record Male / Female as observed)		•	
Don't Know 77 77 7777	Select Male / Female as observed.	Female	2	- C1
DUITKIOWITITIII	What is your date of birth?			
	Don't Know 77 77 7777		I I I If known, Go to	C2
Enter date of birth of participant. If unknown, select "don't know". dd mm year	Enter date of birth of participant. If unknown, select "don't know".		year	
How old are you?	How old are you?			
If the age is unknown, help participant estimate their age by interviewing them about their recollection of widely known major events.	interviewing them about their recollection of widely known major	Years		C3
In total, how many years have you spent at school and in full-time	In total, how many years have you spent at school and in full-time			
study (excluding pre-school)?	study (excluding pre-school)?			
Years C4		Years		C4
Enter total number of years of education (excluding pre-school and			1 1 1	
kindergarten).				
EXPANDED: Demographic Information				
What is the highest level of education you have completed? No formal schooling 1	What is the highest level of education you have completed?			
Less than primary school 2				
Primary school completed 3				
Secondary school completed 4 [INSERT COUNTRY-SPECIFIC CATEGORIES]	INSERT COUNTRY SPECIFIC CATEGORIES	Secondary school completed	4	
College/University completed 6	[INOLITY COOKTICT-OF LOFF TO OAT LOOKIEG]	College/Liniversity completed	6	
If a person attended a few months of the first year of secondary Post graduate degree 7 C5	If a person attended a few months of the first year of secondary			C5
school but did not complete the year, select "primary school		1 oot gradaate dogroo	,	
completed". If a person only attended a few years of primary school,				
		Refused	88	
select "less than primary school".	select less than primary school .	Neiuseu	00	
Select appropriate response.	Select appropriate response.			
What is your relevant ethnic group / racial group / cultural subgroup /	What is your relevant ethnic group / racial group / cultural subgroup /			
others] background? Nauruans 1	others] background?	Nauruans	1	
Others 2 C6				C6
Select the relevant ethnic/cultural group to which the participant	Select the relevant ethnic/cultural group to which the participant	5,11010		
belongs. Refused 88	belongs.	Refused	88	

	l N	ever married	1	
		ently married	2	
What is your marital status?		Separated	3	
That is your marian status.		Divorced	4	C7
Select the appropriate response.		Widowed	5	
	Cohabita	ting/De-facto	6	
		Refused	88	
Which of the following best describes your main work status over the	Governme	ent employee	1	
past 12 months?	Non-governme		2	
pust 12 months:		elf-employed	3	
	Non-p	aid/volunteer	4	
		Student	5	
[INSERT COUNTRY-SPECIFIC CATEGORIES]		Homemaker	6	
		Retired	7	
	Unemployed (8	C8	
	Unemploye	ed (unable to	9	CO
(USE SHOWCARD)				
The purpose of this question is to help answer other questions				
such as whether people in different kinds of occupations may be		Refused	88	
confronted with different risk factors.	Reluseu		00	
Select appropriate response.				
How many people older than 18 years, including yourself, live in your				
household?				00
	Numl	ber of people		C9
Enter the total number of people living in the household who are 18				
years or older.				
EXPANDED: Demographic Information, Continued				
Question		Res	ponse	Code
Taking the past year, can you tell me what the average earnings of	Per week		Go to T1	C10a
the household have been?	OR per month		Go to T1	C10b
	OR per year		Go to T1	C10c
(RECORD ONLY ONE, NOT ALL 3)				
	Refused	88		C10d
Enter the average earnings of the household by week, month, or				
year. If refused to answer, skip to C11.)	1	
If you don't know the amount, can you give an estimate of the annual		Quintile 10,000	1	
household income if I read some options to you? Is it	More than 10,00		3	
[INSERT QUINTILE VALUES IN LOCAL CURRENCY]	More than Q 20,00		4	
[INDERT QUINTIES WEDES IN ESCALE SOURCENOT]			5	211
	Iviore	than Q 50,001 Don't Know	77	C11
(READ OPTIONS)		DOIT (KNOW	11	
Select the appropriate quintile value for the annual household income.		Refused	88	

Step 1 Behavioural Measurements

CORE: Tobacco Use			
Now I am going to ask you some questions about toba	acco use.		
Question	F	Response	Code
Do you currently smoke any tobacco products, such as	Yes	1	
cigarettes, cigars or pipes?			
(USE SHOWCARD) Ask the participant to think of any tobacco products he/	No	2 If No, go to T8	T1
she is smoking currently.			
Do you currently smoke tobacco products daily?	V	4	
	Yes	1	T2
This question is only for current smokers of tobacco products.	No	2	
How old were you when you first started smoking?			
now old were you when you first started smoking?	Age (years)		
For current smokers only. Ask the participant to think			T3
of the time when he/she started to smoke any tobacco	Don't know 77		13
products.		If Known, go to T5a/T5aw	
Do you remember how long ago it was?		ii ittiowii, go to 13a/13aw	- 4
Do you remember now long ago it was:	In Years	If Known, go to T5a/T5aw	T4a
(RECORD ONLY 1, NOT ALL 3)	OR in Months	If Known, go to T5a/T5aw	T4b
Don't know 77			
If the constitute and also sould be according to the first first and the constitution of the constitution	OR in Weeks		
If the participant doesn't remember his/her age when			T4c
started smoking, then record the time in years, months or			
weeks as appropriate.			
On average, how many of the following products do you		DAILY↓ WEEKLY↓	
smoke each day/week?	Manufactured cigarettes		T5a/T5aw
	Hand-rolled cigarettes		T5b/T5bw
	Pipes full of tobacco		T5c/T5cw
(IF LESS THAN DAILY, RECORD WEEKLY)			
(,,, ,	Cigars, cheroots, cigarillos		T5d/T5dw
	Number of Shisha sessions		T5e/T5ew
(RECORD FOR EACH TYPE, USE SHOWCARD)	Other		T5f/T5fw
		If Other, go to T5other, else go to T6	
Don't Know 7777			
For current smokers only.			TE " '
Specify zero if no products were used in each category	Other (places are sife)		T5other/
instead of leaving categories blank.	Other (please specify):		T5otherw
- -			I JULIEI W
Record daily consumption for daily smokers. If products are smoked less than daily by daily smokers, enter weekly consumption. Also enter weekly consumption for current,			
non-daily smokers.			

During the last six months have you purchased a roll/ single stick cigarette?		Yes No	X1
		Don't know	
During the past 12 months, have you tried to stop smoking?	Yes	1	_
For current smokers only. Ask the participant to think of any quit attempt during the past 12 months.	No	2	T6
During any visit to a doctor or other health worker in the past 12 months, were you advised to quit smoking	Yes	1 If T2=Yes, go to T12; if T2=No, go to T9	
tobacco? For current smokers only. Ask the participant to think of	No	2 If T2=Yes, go to T12; if T2=No, go to T9	T7
visits to a doctor or other health worker during the past 12 months. If no visit, select "no visit during the past 12 months".	No visit during the past 12 months	3 If T2=Yes, go to T12; if T2=No, go to T9	
In the past, did you ever smoke any tobacco products? (USE SHOWCARD)	Yes	1	
Ask the participant to think of the time when he/she may have been smoking tobacco products.	No	2 If No, go to T12	Т8
In the past, did you ever smoke daily?	Yes	1 If T1=Yes, go to T12, else go to T10	
Ask the participant to think of the time when he/she may have been smoking tobacco products on a daily basis.	No	2 If T1=Yes, go to T12, else go to T10	Т9

EXPANDED: Tobacco Use				
Question	Response		Code	
How old were you when you stopped smoking?	Age (years)			
Ask the participant to think of the time when he/she stopped smoking tobacco products.	Don't Know 77	If Known, go to T12	T10	
How long ago did you stop smoking?	Years ago	If Known, go to T12	T11a	
(RECORD ONLY 1, NOT ALL 3)	OR Months ago	If Known, go to T12	T11b	
Don't Know 77 If the participant doesn't remember his/her age when they stopped smoking, then record the time in weeks, months or years as appropriate.	OR Weeks ago		T11c	
Did you stop smoking for health reasons	Yes 1		X2	

Do you currently use any smokeless tobacco products such as [snuff, chewing tobacco, betel]? (USE		Yes 1	T12
SHOWCARD)		No 2 If No, go to T15	112
Do you currently use smokeless tobacco products daily?		140 2 11140, 90 to 110	
		DAILY WEEKLY	
On average, how many times a day/week do you use	Snuff, by mouth		T14a/T14aw
(IF LESS THAN DAILY, RECORD WEEKLY)	Snuff, by nose		T14b/T14bw
(RECORD FOR EACH TYPE, USE SHOWCARD)	Chewing tobacco		T14c/T14cw
	Betel, quid		T14d/T14dw
Don't Know 7777	Other	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	T14other/14othew
In the past , did you ever use smokeless tobacco products such as [snuff, chewing tobacco, or betel]?	Yes	1	T15
	No	2 If No, go to T17	
In the past , did you ever use smokeless tobacco products such as [snuff, chewing tobacco, or betel] daily ?	Yes	1	T16
	No	2	
During the past 30 days, did someone smoke in your home?	Yes	1	
Record the number of days. The participant should only think about other people, not about him-/herself. Smokers should exclude themselves. The question is asking about inside the participant's home. This only includes fully enclosed areas of the home.	No	2	T17

During the past 30 days, did someone smoke in closed areas in your workplace (in the building, in a work area or	Yes	1 2	
a specific office)?	110		
Record the number of days. For those not working in a closed area, record "don't work in a closed area".	Don't work in a closed	3	T18
Ask the participant to think of seeing somebody smoke or smelling the smoke in indoor areas at work during the past 30 days.	area	3	
	Yes	1	
Do you currently use e-cigarettes	No	2 If No, go to A1	X3
	Once a day	1	
If yes, how often do you use e-cigarette	More than once a day	2	X4
yee,e etc., ee yee eee o olgarotto	Every week but not daily	3	A1
	Occasionally	4	

CORE: Alcohol Consumption			
The next questions ask about the consumption of alcohol.			
Question	Respo	nse	Code
Have you ever consumed any alcohol such as beer, wine, spirits or [add other local examples]?	Yes	1	
(USE SHOWCARD OR SHOW EXAMPLES) Ask the participant to think of any drinks that contain alcohol, with the exception of alcohol-based medication that is taken due to health reasons.	No	2 If No, go to A16	A1
Have you consumed any alcohol within the past 12 months?	Yes	1 If Yes, go to A4	
Ask the participant to think of any drinks that contain alcohol, with the exception of alcohol-based medication that is taken due to health reasons.	No	2	A2
Have you stopped drinking due to health reasons, such as a negative impact on your health or on the advice of your doctor or	Yes	1 If Yes, go to A16	
other health worker? This question is for those participants that did not drink during the past 12 months, but that have drunk in their lifetime.	No	2 If No, go to A16	A3
During the past 12 months, how frequently have you had at least	Daily	1	
one standard alcoholic drink?	5-6 days per week	2	
(READ RESPONSES, USE SHOWCARD)	3-4 days per week	3	
For those that have consumed alcohol in the past 12 months.	1-2 days per week	4	A4
A "standard drink" is the amount of ethanol contained in standard glasses of beer, wine, fortified wine such as sherry,	1-3 days per month	5	
and spirits. Depending on the country, these amounts will vary between 8 and 13 grams of ethanol. See showcard.	Less than once a month	6	

Yes	1	A5
No	2 If No, go to A13	CA
Number		
Number		A6
Don't know 77		7.0
Number		
		A7
Don't know 77		
Largest number		
Largest number		A8
Don't Know 77		/10
Bontraiow		
Number of times		
Don't Know 77		A9
Monday		A10a
•	1 1 1	
Tuesday		A10b
Wednesday		A10c
Thursday		A10d
Friday		A10e
•		
Saturday		A10f
٠٠. له مدر ۲		A40-
Sunday		A10g
	Number Don't know 77 Number Don't know 77 Largest number Don't Know 77 Number of times Don't Know 77 Monday Tuesday Wednesday Thursday Friday	Number Don't know 77 Largest number Don't Know 77 Largest number Don't Know 77 Number of times Don't Know 77 Monday Tuesday Wednesday Thursday Friday Saturday Li No, go to A13

CORE: 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.

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	Yes	1	
alcohol? [AMEND ACCORDING TO LOCAL CONTEXT] (USE SHOWCARD) Ask the participant to only think of homebrewed alcohol, any alcohol brought over the border/from another country, any alcohol not intended for drinking or other untaxed alcohol.	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?	Homebrewed spirits, e.g. moonshine		A12a
[INSERT COUNTRY-SPECIFIC EXAMPLES]	Homebrewed beer or wine, e.g. beer, palm or fruit wine		A12b
(USE SHOWCARD)	Alcohol brought over the border/from another country		A12c
Don't Know 77	Alcohol not intended for drinking, e.g. alcohol-based medicines, perfumes, after shaves		A12d
Ask the participant to think of the past 7 days.			
Use the showcard that specifies what standard drinks are for each type of alcohol. Alcohol not intended for drinking should be treated like spirits.	Other untaxed alcohol in the country		A12e
Record for each type of alcohol the number of standard drinks. If no drinks record 0.			

During the past 12 months, how often have you found that you	Daily or almost daily	1	
were not able to stop drinking once you had started?	Weekly	2	
	Monthly	3	
	Less than monthly	4	A13
Ask the participant to think of the past 12 months. Read out all the answer options.	Never	5	
During the past 12 months, how often have you failed to do what	Daily or almost daily	1	
was normally expected from you because of drinking?	Weekly	2	
	Monthly	3	
	Less than monthly	4	A14
Ask the participant to think of the past 12 months. Read out all the answer options.	Never	5	

During the past 12 months, how often have you needed a first	Daily or almost daily	1	
drink in the morning to get yourself going after a heavy drinking	Weekly	2	
session?	Monthly	3	
	Less than monthly	4	A15
Ask the participant to think of the past 12 months. Read out all the answer options.	Never	5	Alo
During the past 12 months, have you had family problems or	Yes, more than monthly	1	
problems with your partner due to someone else's drinking?	Yes, monthly	2	
	Yes, several times but less than monthly	3	
	Yes, once or twice	4	A 4 C
Ask the participant to think of the past 12 months. Read out all the answer options.	No	5	A16
The participant should not think of his/her own drinking, but of someone else's drinking.			

Kava use			
Now I am going to ask you some questions about kava	a or yagona		
Question	F	Response	
Have you ever tried or drunk kava or yagona in the past	Yes	1	
12 months?	No	2 If No, skip the rest of this section D1	X5
During the past 30 days on how many days did you drink kava or yagona	Number of days		X6
How long do you usually spend drinking kava in a session?	Number of hours		X7
	Yes	1	
Do you usually drink alcohol during or after drinking kava or yagona?	No	2	X8
Do you usually smoke during or after drinking kava or	Yes	1	
yagona?	No	2	X9
Do you usually eat during or after drinking kava or yagona	Yes	1	X10
3	No	2 if No skip next questions to D1	1
	Soft drinks	1	
If yes, what type of food and drink?	Sweets	2	X11
	Salted snacks	3	
	Other	4	

CORE: Diet				
The next questions ask about the fruits and vegetables that you local fruits and vegetables. Each picture represents the size of the last year.	•		•	
Question	F	Response		Code
In a typical week, on how many days do you eat fruit?				
(USE SHOWCARD)	Number of days	LL_	J If Zero days, go to D3	D1
Ask the participant to think of any fruit on the showcard. A typical week means a "normal" week when the diet is not affected by cultural, religious, or other events. Ask the participant to not report an average over a period.	Don't Know 77			
How many servings of fruit do you eat on one of those days? (USE SHOWCARD)	Number of servings			D2
Ask the participant to think of one day he/she can recall easily. Refer to the showcard for serving sizes.	Don't Know 77			
In a typical week, on how many days do you eat vegetables? (USE SHOWCARD)				
Ask the participant to think of any fruit on the showcard. A typical week means a "normal" week when the diet is not affected by cultural, religious, or other events. Ask the participant to not report an average over a period.	Number of days Don't Know 77		If Zero days, go to D5	D3
How many servings of vegetables do you eat on one of those days? (USE SHOWCARD)	Number of servings			D4
Ask the participant to think of one day he/she can recall easily. Refer to the showcard for serving sizes.	Don't know 77			
	Dietary salt			
With the next questions, we would like to learn more about salsea salt, iodized salt, salty stock cubes and powders, and sal questions are on adding salt to the food right before you eat it high in salt such as [insert country specific examples], and questions are on adding salt to the food right before you eat it high in salt such as [insert country specific examples], and questions are on adding salt to the food right before you eat it.	ty sauces such as soya sau on how food is prepared ir	ice or fish i your hom salt intake	sauce (see showcard). The ne, on eating processed for	e following ods that are
Read this opening statement out loud. Don't forget to use the showca	rd which will help the responde	ent when ar	nswering to the questions.	
How often do you add salt, oxo or a salty sauce such as soya sauce to your food right before you eat it or as you are eating it?)	Always Often	2	
your rood right before you eat it or as you alle eathing it?	So	ometimes	3	
(SELECT ONLY ONE)		Rarely	4	
(USE SHOWCARD)		Never	5	_ D5

77

Don't know

and salty sauces.

Read out all the answer options. Use the showcard that shows salt

		Alway	/s 1		
How often is salt, oxo, salty seasoning or a salty sauce added in		Ofte	n 2		
cooking or preparing foods in your household?		Sometime	es 3	DC	
		Rare	ly 4	D6	
Read out all the answer options. Select the appropriate response.).	Neve	er 5		
		Don't kno	w 77		
How often do you eat processed food high in salt? By processed	food	Alway	rs 1		
high in salt, I mean foods that have been altered from their natural		Ofte	n 2		
state, such as packaged salty snacks, canned salty food including	, [Sometime	es 3		
pickles and preserves, salty food prepared at a fast food restaurar	nt,	t, Rarely 4			
cheese, bacon and processed meat [add country specific example	es].	Neve	er 5	D7	
[INSERT EXAMPLES] (USE SHOWCARD)					
Read out all the answer options. Use the showcard that shows		Don't kno	w 77		
processed food high in salt.					
		Far too mud	h 1		
		Too mud			
How much salt or salty sauce do you think you consume?		Just the right amou			
		Too litt		D8	
Read out all the answer options and select the appropriate respon	ise.	Far too litt			
		Don't kno			
EXPANDED: Diet		20	.		
Question	Т	Respons	 e	Code	
44001011		Very important	1		
How important to you is lowering the salt in your diet?		Somewhat important	2		
		Not at all important	3	D9	
Select the appropriate response.		Don't know	77		
Do you think that too much salt or salty sauce in your diet could	<u> </u>	Yes	1		
cause a health problem?		No	2		
Cause a ricaliti problem:			_	D10	
Select the appropriate response.		Don't know	77		
Do you do any of the following on a regular basis to control your sa	l alt intake	<u> </u>		<u> </u>	
(RECORD FOR EACH)	art irrearce	· .			
(NESSTIE FOR EXCIT)					
Select the appropriate response for each option. Ask the participa	ant to onl	ly consider actions that he/she und	dertakes specifically to contro	ol salt intake, and	
not for any other purpose.					
Limit consumption of processed foods	,	Yes	1	D11a	
Elimit consumption of processed roods	<u></u>	No	2	Dila	
Look at the salt or sodium content on food labels	,	Yes	1	D11b	
Econ at the sait of social content of food labels	<u></u>	No	2	DIII	
Buy low salt/sodium alternatives	,	Yes	1	D11c	
Buy low sair/sodium alternatives	<u>'</u>	No	2	Dilic	
Use spices other than salt when cooking	,	Yes	1	D11d	
Ose spices other than sait when cooking	1	No	2	Dila	
Avoid eating foods prepared outside of a home	,	Yes	1	D11e	
Avoid eating 10003 prepared outside of a fittine		No	2	Dile	
Do other things specifically to control your salt intake	,	Yes	1 If Yes, go to D11other	D11f	
Do dator uningo oppositionly to control your sail intake		No	2	5111	
Other (please specify)				D11other	
				21100101	

your household?	Lard or suet	2	
	Butter or ghee	3	
	Margarine	4	D40
	Other		D12
(USE SHOWCARD)	None in particular		
	None used		
(SELECT ONLY ONE)	Don't know	77	
Select the appropriate response.	Other		D12other
On average, how many meals per week do you eat that were not			
prepared at a home? By meal, I mean breakfast, lunch and dinner.			
prepared at a nome: by mean, i mean breaklast, functi and diffier.	Number		
Record the number of meals. Ask the participant to think of meals			D13
that were not prepared at a home, including his/her own home, the	Don't know 77		
home of other family members or friends.			
Tionle of other family members of mends.			
In the last week, on how many days did you have a drink			
containing sugar including fizzy drinks, juice drinks (excluding			
pure unsweetened fruit juice), cordials/drink mixes, and home	Number of days		X12
made drinks with added sugar such as ice coffee, ice tea (use	Don't Know 77		7.12
showcard)		If Zero days, go to X14	
On the days when you had a drink containing sugar, how	Number of servings	Il Zelo days, go to X14	
many serves did you have (use showcard. One serve being	Number of Servings		X13
one can of drink, one large glass)	Don't know 77		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
In a typical day, how often did you have a drink to which you	DOIT (KIIOW 11		
added sugar, like milo, tea or coffee (use showcard). (If had	N. J. CC		
more than one drink a day, please include this eg 10 times a	Number of times		X14
day)	Don't Know 77		
How many teaspoons of sugar did you add, on average, to	Number of teaspoons	If Zero days, go to V3	
each of these drinks	Number of teaspoons		X15
Cacif of those diffine	Don't know 77	1 1 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	DOIT (KIIOW 11		
CORE: Injury			
The next questions ask about different experiences and beh	aviors that are related to road	I traffic injuries.	
Question	Re	esponse	Code
	Yes (a	as driver) 1	
	Yes (as pa	ssenger) 2	
In the past 12 months, have you been involved in a road traffic	Yes (as pe	destrian) 3	
· · · · · · · · · · · · · · · · · · ·	Yes (as	a cyclist) 4	V3
crash as a driver, passenger, pedestrian, or cyclist?		No 5 If No, go to X16	
	Do	on't know 77 If don't know, go to X16	
		Refused 88 If Refused, go to X16	
		Yes 1	
Did you have any injuries in this road traffic crash which required		No 2	
medical attention?	Do	on't know 77	V4
		Refused 88	

Vegetable oil 1

What type of oil or fat is most often used for meal preparation in

	Yes	1	
In the past 30 days have you driven a vehicle after you have	No	2	X16
consumed alcohol	Don't know	77	1 10
	Refused	88	
CORE: Reproductive Health			
Next question is related to reproductive health			
	Yes	1	
Do you know where you could get condoms from?	No	2	X17
	Don't know	77	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
	Refused	88	

CORE: 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.

Read this opening statement out loud. It should not be omitted. The respondent will have to think first about the time he/she spends doing work (paid or unpaid work, household chores, harvesting food, fishing or hunting for food, seeking employment [Insert other examples if needed]), then about the time he/she travels from place to place, and finally about the time spent in vigorous as well as moderate physical activity during leisure time.

Remind the respondent when he/she answers the following questions that '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. Don't forget to use the showcard which will help the respondent when answering to the questions.

Question	R	esponse	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?	Yes	1	
[INSERT EXAMPLES] (USE SHOWCARD) Ask the participant to think about vigorous-intensity activities at work only. Activities are regarded as vigorous intensity if they cause large increases in breathing and/or heart rate.	No	2 If No, go to P 4	P1
In a typical week, on how many days do you do vigorous-intensity activities as part of your work? "Typical week" means a week when the participant is engaged in his/her usual activities. Valid responses range from 1-7.	Number of days		P2
How much time do you spend doing vigorous-intensity activities at work on a typical day? Ask the participant to think of a typical day he/she can recall easily in which he/she engaged in vigorous-intensity activities at work. The participant should only consider those activities undertaken continuously for 10 minutes or more. Probe very high responses (over 4 hrs) to verify.	Hours : minutes	hrs mins	P3 (a-b)

Does your work involve moderate-intensity activity, that causes small	Yes	1	
increases in breathing or heart rate such as brisk walking [or carrying light loads] for at least 10 minutes continuously?			
[INSERT EXAMPLES] (USE SHOWCARD)	No	2 If No, go to P 7	P4
Ask the participant to think about moderate-intensity activities at work only. Activities are regarded as moderate intensity if they cause small increases in breathing and/or heart rate.	NO	2 11 NO, 90 to 1 7	
In a typical week, on how many days do you do moderate-intensity			
activities as part of your work?	Number of days		P5
"Typical week" means a week when the participant is engaged in his/her usual activities. Valid responses range from 1-7.			
How much time do you spend doing moderate-intensity activities at work on a typical day?			
			P6
Ask the participant to think of a typical day he/she can recall easily in which he/she engaged in moderate-intensity activities at work. The participant	Hours : minutes		(a-b)
should only consider those activities undertaken continuously for 10		·	
minutes or more. Probe very high responses (over 4 hrs) to verify.		hrs mins	
Travel to and from places	ra almandi mandianad		
The next questions exclude the physical activities at work that you have	re aiready mentioned.		
Now I would like to ask you about the usual way you travel to and from	n places. For example t	o work, for shopping, to market	, to place of
worship. [Insert other examples if needed]			
The introductory statement to the following questions on transport-related phy about how they travel around getting from place-to-place. This statement should be a statement of the following questions on transport-related phy about how they travel around getting from place-to-place.		ant. It asks and helps the participal	nt to now think
Do you walk or use a bicycle (pedal cycle) for at least 10 minutes	Yes	1	
continuously to get to and from places?	163	1	D7
Select the appropriate response.	No	2 If No, go to P 10	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?			
"Typical week" means a week when the participant is engaged in his/her	Number of days		P8
usual activities. Valid responses range from 1-7.			_

CORE: Physical Activity, Continued			
Question		Response	Code
How much time do you spend walking or bicycling for travel on a typical			
day?			
			P9
Ask the participant to think of a typical day he/she can recall easily in which	Hours : minutes		_
he/she engaged in transport-related activities. The participant should only			(a-b)
consider those activities undertaken continuously for 10 minutes or more.			
Probe very high responses (over 4 hrs) to verify.		hrs mins	
Recreational activities			
The next questions exclude the work and transport activities that you l	have already mentioned		
Now I would like to ask you about sports, fitness and recreational activ	vities (leisure) [Insert rel	evant terms].	
This introductory statement directs the participant to think about recreational a	activities. This can also be	called discretionary or leisure time. It inc	cludes
sports and exercise but is not limited to participation in competitions. Activities		•	
to focus on only recreational activities and not to include any activities already			
Do you do any vigorous-intensity sports, fitness or recreational (leisure)			
activities that cause large increases in breathing or heart rate like [running	Yes	1	
or football] for at least 10 minutes continuously?			
[INSERT EXAMPLES] (USE SHOWCARD)			P10
(001 00000000)	No	2 If No, go to P 13	
Ask the participant to think about recreational vigorous-intensity activities	INO	2 11 NO, 90 101 13	
only. Activities are regarded as vigorous intensity if they cause large			
increases in breathing and/or heart rate.			
In a typical week, on how many days do you do vigorous-intensity sports,			
fitness or recreational (leisure) activities?			
Throop of Four-dutorial (iologic) doublings.	Number of days		P11
"Typical week" means a week when the participant is engaged in his/her	Transor or days		
usual activities. Valid responses range from 1-7.			
How much time do you spend doing vigorous-intensity sports, fitness or			
recreational activities on a typical day?			
, ,			P12
Ask the participant to think of a typical day he/she can recall easily in which	Hours : minutes		' '2
he/she engaged in recreational vigorous-intensity activities. The participant		L_L_: L_L_	(a-b)
should only consider those activities undertaken continuously for 10		-	
minutes or more. Probe very high responses (over 4 hrs) to verify.		hrs mins	
Do you do any moderate-intensity sports, fitness or recreational (leisure)	Yes	1	
activities that cause a small increase in breathing or heart rate such			
as brisk walking, [cycling, swimming, volleyball] for at least 10 minutes			
continuously?			
			P13
[INSERT EXAMPLES] (USE SHOWCARD)	NI.	2 If No. go to D16	1 10
	No	2 If No, go to P16	
Ask the participant to think about recreational moderate-intensity activities			
only. Activities are regarded as moderate intensity if they cause small			
increases in breathing and/or heart rate.			

fitness or recreational (leisure) activities? "Typical week" means a week when the participant is engaged in his usual activities. Valid responses range from 1-7.		umber of days			P14
How much time do you spend doing moderate-intensity sports, fitne	ss or				
recreational (leisure) activities on a typical day?					
Ask the participant to think of a typical day he/she can recall easily i	n which H	ours : minutes			P15
he/she engaged in recreational moderate-intensity activities. The pa		ouro : minutoo			(a-b)
should only consider those activities undertaken continuously for 10			hrs mins		
minutes or more. Probe very high responses (over 4 hrs) to verify.					
	I am	not interested	1		
	l do	not have time	2		
	Lac	k of sidewalks	3		
What are the main barriers to you being more physically active?		Dogo			X18
		Dogs	4		
	Other inclu	r safety issues ding accidents	5		
		Other	6		
EXPANDED: Physical Activity					
Sedentary behaviour					
The following question is about sitting or reclining at work, at	home, getting to a	nd from places.	or with friends including tir	ne spent	sitting
at a desk, sitting with friends, traveling in car, bus, train, read			•		_
sleeping.					
[INSERT EXAMPLES] (USE SHOWCARD)					
How much time do you usually spend sitting or reclining on a typica					
day?					
Ask the participant to consider total time spent sitting at work, in an		ours : minutes			P16
office, reading, watching television, using a computer, doing hand c		ours . minutes		(a-b)
like knitting, resting etc. The participant should not include time spe			•		/
sleeping.					
			hrs mins		
CORE: History of Raised Blood Pressure			hrs mins		
CORE: History of Raised Blood Pressure Question		Respo			Code
Question Have you ever had your blood pressure measured by a doctor		Respo			Code
Question		•	nse		
Question Have you ever had your blood pressure measured by a doctor or other health worker?		Yes	nse 1		Code H1
Question Have you ever had your blood pressure measured by a doctor		•	nse		
Question Have you ever had your blood pressure measured by a doctor or other health worker? Ask the participant to only consider measurements done by a doctor or other health worker.		Yes	nse 1		
Question Have you ever had your blood pressure measured by a doctor or other health worker? Ask the participant to only consider measurements done by a		Yes	nse 1 2 If No, go to H6		H1
Question Have you ever had your blood pressure measured by a doctor or other health worker? Ask the participant to only consider measurements done by a doctor or other health worker. Have you ever been told by a doctor or other health worker that		Yes	nse 1 2 If No, go to H6		

In a typical week, on how many days do you do moderate-intensity sports,

Have you been told in the past 12 months?	Yes	1	
Only for those that have previously been diagnosed with raised blood pressure.	No	2	H2b
In the past two weeks, have you taken any drugs (medication)	Yes	1	
for raised blood pressure prescribed by a doctor or other health			
worker?	No	2	Н3
Ask the participant to only consider drugs for raised blood			
pressure prescribed by a doctor or other health worker.			
Have you ever seen a traditional healer for raised blood	Yes	1	
pressure or hypertension?	No	2	H4
Select the appropriate response.			
Are you currently taking any herbal or traditional remedy for your	Yes	1	
raised blood pressure? Select the appropriate response.	No	2	H5

CORE: History of Diabetes				
Question	Respor	ise		Code
Have you ever had your blood sugar measured by a doctor or other health worker?	Yes	1		_
Ask the participant to only consider measurements done by a doctor or other health worker.	No	2 If No,	go to H12	H6
Have you ever been told by a doctor or other health worker that	Yes	1		
you have raised blood sugar or diabetes? Select the appropriate response.	No	2 If No,	go to H12	Н7а
	Yes	1		
Since your diagnosis, have you attended all scheduled clinic	No	2		X19
appointments	Have not scheduled any appointments	3		
Have you been told in the past 12 months?	Yes	1		
Only for those that have previously been diagnosed with diabetes.	No	2		H7b
In the past two weeks, have you taken any drugs (medication)	Yes	1		
for diabetes prescribed by a doctor or other health worker? Ask the participant to only consider drugs for diabetes prescribed by a doctor or other health worker.	No	2		Н8
Are you currently taking insulin for diabetes prescribed by a	Yes	1		
doctor or other health worker? Ask the participant to only consider insulin that was prescribed	No	2		H9
by a doctor or other health worker.				

Have you ever seen a traditional healer for diabetes or raised	Yes	1	
blood sugar?	N	0	H10
Select the appropriate response.	No	2	
Are you currently taking any herbal, natural or traditional remedy	Yes	1	
for your diabetes?	No	2	H11
Select the appropriate response.			

CORE: History of Raised Total Cholesterol			
Questions	Re	sponse	Code
Have you ever had your cholesterol (fat levels in your blood) measured by a doctor or other health worker? Ask the participant to only consider measurements done by a doctor or other health worker.	Yes	1 2 If No, go to H17	H12
Have you ever been told by a doctor or other health worker that you have raised cholesterol? Select the appropriate response.	Yes No	1 2 If No, go to H17	H13a
Since your diagnosis, have you attended all scheduled clinic appointments	Yes No Have not scheduled any appointments	1 2 3	X20
Have you been told in the past 12 months?	Yes	1	
Only for those that have previously been diagnosed with raised total cholesterol.	No	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? Ask the participant to only consider drugs for raised total cholesterol prescribed by a doctor or other health worker.	Yes	2	H14
Have you ever seen a traditional healer for raised cholesterol?	Yes	1	H15
Select the appropriate response.	No	2	1113
Are you currently taking any herbal, natural or traditional remedy for your raised cholesterol? Select the appropriate response.	Yes	2	H16

CORE: History of Cardiovascular Diseases			
Question	Response		
Have you ever had a heart attack or chest pain from heart	Yes	1	
disease (angina) or a stroke (cerebrovascular accident or			H17
incident) or been diagnosed with angina?	No	2 If No, go to H18	1117
Select the appropriate response.		, 0	

	Yes	1	
Since your diagnosis, have you attended all scheduled clinic appointments	No	2	X21
	Have not scheduled any appointments	3	
Are you currently taking aspirin regularly to prevent or treat heart	Yes	1	
disease? "Regularly" means on a daily or almost daily basis.	No	2	H18
Are you currently taking statins (Lovastatin/Simvastatin/ Atorvastatin or any other statin) regularly to prevent or treat	Yes	1	
heart disease?	No	2	H19
"Regularly" means on a daily or almost daily basis.			

CORE: Lifestyle Advice			
Questions	Respon	se	Code
During the past three years, has a docto	r or other health worker advised you to de	o any of the following?	
(RECORD FOR EACH)			
Select the appropriate response. Ask the participant to only consider	der advice from a doctor or other health v	vorker.	
Quit using tobacco or don't start	Yes	1	H20a
gait doing tobacco or don't start	No	2	HZUa
Reduce salt in your diet	Yes	1	H20b
	No	2	ПZUD
	Yes	1	1.100-
Eat at least five servings of fruit and/or vegetables each day	No	2	H20c
Dadwar fet in wew diet	Yes	1	11004
Reduce fat in your diet	No	2	H20d
Charles and a reason planning and initia	Yes	1	1100-
Start or do more physical activity	No	2	H20e
Mariatain a la allibura de consistat de la constata	Yes	1 If C1=1 go to X25	1100t
Maintain a healthy body weight or lose weight	No	2 If C1=1 go to X25	H20f

CORE (for women only): Cervical Cancer Screening

The next question asks about cervical cancer prevention. Screening tests for cervical cancer prevention can be done through pap smear. 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 ..

Read this opening statement out loud. It should not be omitted.

Question	Response		Code
Have you ever had a screening test for cervical cancer – Pap	Yes	1	
Smear, using any of these methods described above?	No	2 If No, then go to X23	CX1
Select the appropriate response.	Don't know	77	

If yes, when was the last time you had this done	Within last year Within last two years		X22
in yes, when was the last time you had this done	Longer than two years	3	XZZ
	Can't remember	4	
	Yes	1	
Do you know how to do self-breast examination to check for lumps or other abnormalities	No	2 If No, go to X25	X23
	Unsure	3 If Unsure, go to X25	
	Yes	1	
Do you do self-breast examination every month?	No	2	X24
So you do com shouch chammadon of only monain	Sometimes	3	7,21
	Unsure	4	
Oral Health			
	Yes, check-up, no treatment need,	1	
Have you in the last six months been to a dentist for any check-up or treatment	Yes, extraction or filling of tooth	2	X25
	No, not been in last six months	3	
	Good	1	
	Painful		
	Decayed	2	X26
How would you describe the state of your teeth		3	7.20
	Loose/mobile teeth	4	
	Not sure/other		
	Good	1	
Have would you describe the state of your surre	Bleeding and/or painful	2	V07
How would you describe the state of your gums	Swollen	3	X27
	Not sure/other	4	

MENTAL HEALTH

Please read out all the answer options for each question.

Note the response that is selected:

1. None of the time /2. A little of the time /3. Some of the time /4. Most of the time /5. All of the time

	None of the time 1	
	A little of the time 2	
In the past 4 weeks, about how often did you feel tired out for no good reason?	Some of the time 3	X28
	Most of the time 4	
	All of the time 5	
	None of the time 1	
	A little of the time 2	
In the past 4 weeks, about how often did you feel nervous?	Some of the time 3	X29
	Most of the time 4	
	All of the time 5	
	None of the time 1	
	None of the time i	
In the past 4 weeks, about how often did you feel so nervous that nothing could	A little of the time 2	
calm you down?	Some of the time 3	X30
	Most of the time 4	
	All of the time 5	
	None of the time 1	
	A little of the time 2	
In the past 4 weeks, about how often did you feel hopeless?	Some of the time 3	X31
	Most of the time 4	
	All of the time 5	
	None of the time 1	
	A little of the time 2	
In the past 4 weeks, about how often did you feel restless or fidgety?	Some of the time 3	X32
	Most of the time 4	
	All of the time 5	
	None of the time 1	
In the past 4 weeks, about how often did you feel so restless you could not sit	A little of the time 2	
still?	Some of the time 3	X33
	Most of the time 4	
	All of the time 5	
<u> </u>	1	

None of the time 1	
A little of the time 2	
Some of the time 3	X34
	704
Most of the time 4	
All of the time 5	
None of the time 1	
A little of the time 2	
Come of the time 2	X35
Some of the time 3	733
Most of the time 4	
All of the time 5	
None of the time 1	
A little of the time 2	
Some of the time 3	X36
	7,00
Most of the time 4	
All of the time 5	
None of the time 1	
A little of the time 2	
Some of the time 3	X37
	701
Most of the time 4	
All of the time 5	
	A little of the time 2 Some of the time 3 Most of the time 4 All of the time 5 None of the time 1 A little of the time 2 Some of the time 3 Most of the time 4 All of the time 5 None of the time 1 A little of the time 2 Some of the time 2 Some of the time 3 Most of the time 4 All of the time 5 None of the time 4 All of the time 5 None of the time 1 A little of the time 2 Some of the time 3 Most of the time 2 Some of the time 1

Step 2 Physical Measurements

CORE: Blood Pressure							
Interviewer ID							
Record interviewer ID (in most cases interviewer would be the same as for behavioural measurements).			M1				
Device ID for blood pressure							
Record device ID.			M2				
	Universal	1					
Cuff size used	Extra large	2					
Select cuff size used.	Refused to be measured	3	М3				
Reading 1	Systolic (mmHg)		M4a				
Record first measurement after the participant has rested for 15 minutes. Wait 3 minutes before taking second measurement.	Diastolic (mmHg)		M4b				

Reading 2	Systolic (mmHg)		M5a
Record second measurement. Ask the participant to rest for another 3 minutes before taking the third measurement.	Diastolic (mmHg)		M5b
Reading 3	Systolic (mmHg)		M6a
Record third measurement.	Diastolic (mmHg)		M6b
During the past two weeks, have you been treated for raised blood	Yes	1	
pressure with drugs (medication) prescribed by a doctor or other health worker? Select appropriate response.	No	2 If C1=2 (male), go M9	M7
CORE: Height and Weight			
Question Question	Respo	onse	Code
For women: Are you pregnant?	Yes	1 If Yes, go to M16	
Pregnant women skip over height, weight, waist and hip measurements.	No	2	M8
Interviewer ID			
Record interviewer ID (in most cases interviewer would be the same			М9
as for behavioural and blood pressure measurements).		1 1 1 1	
Device IDs for height and weight	11 * 14		N440 -
Device 153 for fleight and weight	Height		M10a
Record device IDs.	Weight		M10b
Height Record participant's height in cm with one decimal point.	in Centimetres (cm)		M11
Weight			
If too large for scale 666.6	in Kilograms (kg)		M12
Record participant's weight in kg with one decimal point.			
CORE: Waist			
Device ID for waist Record device ID.		1 1 1	M13
Waist circumference Record participant's waist circumference in centimetres with one	in Centimetres (cm)		M14
decimal point.	iii Gentiineties (Giii)	لــا.لــلــــا	IVITA
·		•	
EXPANDED: Hip Circumference and Heart Rate	<u> </u>	_	
Hip circumference Record participant's hip circumference in centimetres with one decimal point.	in Centimeters (cm)		M15
Heart Rate			
Record the three heart rate readings.			
Reading 1	Beats per minute		M16a
Reading 2	Beats per minute		M16b
Reading 3	Beats per minute		M16c

Step 3 Bioc	hemical Measure	ements	
CORE: Blood Glucose			
Question	Re	sponse	Code
During the past 12 hours have you had anything to eat or drink,	Yes	1 If Yes, go to B10	
other than water?			B1
It is essential that the participant has fasted.	No	2	
Technician ID			
			B2
Record ID of the person taking the measurement. Device ID			
Device ID			В3
Record device ID.			
Time of day blood specimen taken (24 hour clock)		:	
Enter time measurement started.	Hours : minutes		B4
		hrs mins	
Fasting blood glucose	n	nmol/l L	
[CHOOSE ACCORDINGLY: MMOL/L]			B5
Double check that the participant has fasted.		I	
Today, have you taken insulin or other drugs (medication) that	Yes	1	
have been prescribed by a doctor or other health worker for raised blood glucose?			В6
, and the second	No	2	
Select appropriate response. CORE: Blood Lipids			
Device ID			
33.133.12			B7
Record device ID.			
Total cholesterol	mmol/l	ш.ш	
			B8
[CHOOSE ACCORDINGLY: MMOL/L]			
During the past two weeks, have you been treated for raised	Yes	1	
cholesterol with drugs (medication) prescribed by a doctor or			DO.
other health worker?	No	2	B9
Select appropriate response.			
HDL Cholesterol			
		 mmol/l	D47
[CHOOSE ACCORDINGLY: MMOL/L]		mmoi/i — . — .	B17
Record value for HDL cholesterol.			
EXPANDED: Hemoglobin for women of CBA			
Hemoglobin			
	m	mol/l LLL . LLL	
[CHOOSE ACCORDINGLY: MMOL/L]			B18
Only women of child bearing age will take part in this			
measurement.			
CORE: Urinary sodium and creatinine			
Had you been fasting prior to the urine collection?		Yes 1	
It is essential that the participant did not fast prior to urine		No 2	B10
collection.			
Technician ID			B11
Record technician ID. (Not on the PDA)		Not on PDA	ווט

Device ID Record device ID. (Not on the PDA)		└──── Not on PDA	B12
Time of day urine sample taken (24 hour clock) Record time of day urine sample taken as reported by the participant.	Hours : minutes	hrs mins	B13
Urinary sodium Record value for urinary sodium. (Note that this question will not show on the PDA)	mmol/l	Not on PDA	B14
Urinary creatinine Record value for urinary creatinine. (Note that this question will not show on the PDA)	mmol/l	Not on PDA	B15

Appendix 2: Supplementary Data Book Tables

1.0 Characteristics of the survey population:

Table 1. Highest level of education attained, by men

	Highest level of education									
					Men					
Age Group (years)	n	% No formal schooling	% Less than primary school	% Primary school completed	% Secondary school completed	% College/ University completed	% Post graduate degree			
18-29	271	0.7	4.1	40.6	52.4	2.2	0			
30-44	229	0.4	4.4	30.6	57.6	7.0	0			
45-69	151	0.0	0.0	26.7	67.3	6.0	0.7			
18-69	651	0.5	3.2	33.8	57.7	4.8	0.2			

Table 2. Highest level of education attained, by women

	Highest level of education										
				,	Women						
Age Group (years)	n	% No formal schooling	% Less than primary school	% Primary school completed	% Secondary school completed	% College/ University completed	% Post graduate degree				
18-29	266	0	2.6	29.3	64.7	3.0	0.4				
30-44	276	0.7	1.1	34.4	55.4	8.0	0.4				
45-69	193	1.0	0.0	21.8	66.8	8.3	2.1				
18-69	735	0.5	1.4	29.3	61.8	6.3	0.8				

Table 3. Marital status, by men

Marital status									
Age		Men							
Group (years)	n	% Never married	% Currently married	% Separated	% Divorced	% Widowed	% Cohabiting		
18-29	271	52.0	33.6	0.4	0.0	0	14.0		
30-44	229	18.3	69.0	4.8	1.7	1.7	4.4		
45-69	151	6.0	72.8	1.3	6.0	9.9	4.0		
18-69	651	29.5	55.1	2.2	2.0	2.9	8.3		

Table 4. Marital status, by women

Marital status										
Age	Women									
Group (years)	n	% Never married	% Currently married	% Separated	% Divorced	% Widowed	% Cohabiting			
18-29	266	42.9	36.1	0.4	0.4	0.0	20.3			
30-44	276	15.6	65.9	5.1	1.1	3.6	8.7			
45-69	193	13.5	52.3	5.7	2.1	24.4	2.1			
18-69	735	24.9	51.6	3.5	1.1	7.8	11.2			

Table 5. Marital status, by men

Employment status										
Ago Croup		Men								
Age Group (years)	n	% Government employee	% Non-government employee	% Self-employed	% Unpaid					
18-29	271	33.6	51.3	1.8	13.3					
30-44	229	35.4	53.3	3.5	7.9					
45-69	151	29.8	35.8	4.6	29.8					
18-69	651	33.3	48.4	3.1	15.2					

Table 6. Marital status, by women

	Employment status												
			Women										
Age Group (years)	n	% Government employee	% Non- government employee	% Self- employed	% Unpaid								
18-29	266	33.8	29.3	1.5	35.3								
30-44	276	36.6	35.1	3.3	25.0								
45-69	193	32.6	22.3	2.6	42.5								
18-69	735	34.6	29.7	2.4	33.3								

Table 7. Unpaid work and unemployment, by men

_	idoic 7. Only	Jaia Work aric	unemploying	ine, by men											
	Unpaid work and unemployed														
ĺ	Δ	Men Age													
	Group				% Home-		Unem	ployed							
	(years)	p % Non-paid % Student % Retired % Able to % Not able to													
	() 50.15/				maker		work	work							
	18-29	36	2.8	5.6	0	0	80.6	11.1							
	30-44	18	0	0	5.6	0	88.9	5.6							
Ī	45-69	45	6.7	0	4.4	26.7	46.7	15.6							
	18-69	99	4.0	2.0	3.0	12.1	66.7	12.1							

Table 8. Unpaid work and unemployment, by women

	Unpaid work and unemployed													
Ago				Women										
Age		% Home- Unemployed												
Group	n													
(years)				maker		work	work							
18-29	94	-	4.3	17.0	0	74.5	4.3							
30-44	69	-	1.4	24.6	0	66.7	7.2							
45-69	82	-	0	18.3	22.0	31.7	28.0							
18-69	245	-	2.0	19.6	7.3	58.0	13.1							

2.0 Tobacco

Table 9. Mean amount of tobacco used by current daily smokers by type and age, by men

	Mean amount of tobacco used by daily smokers by type													
						М	en							
Age Group (years)	n	Mean # of manu- factured cig.	95% CI	n	Mean #of hand- rolled cig.	95% CI	n	Mean # of pipes of tobacco	95% CI	n	Mean # roots, cigarilos	95% CI		
18-29	130	16.2	14.2-18.2	132	0.2	0.1-0.4	133	0.0	0.0-0.1	133	0.0			
30-44	94	17.2	14.7-19.8	93	1.0	0.1-1.8	95	0.7	0.0-2.0	95	0.5	0.0-1.7		
45-69	46	20.7	16.9-24.5	47	2.7	0.3-5.2	47	0.0	0	47	0.0			
18-69	270	17.3	15.5-19.1	272	0.9	0.5-1.3	275	0.3	0.0-0.7	275	0.2	0.0-0.6		

	Mean amount of tobacco used by daily smokers by type													
Ago						Men								
Age Group (years)	n	Mean # of Shisha.	95% CI	n	Mean # Others	95% CI								
18-29	133	0.0	-	131	1.1	0.0-2.2								
30-44	95	0.5	0.0-1.6	94	1.7	0.4-3.1								
45-69	47	0.0	-	47	1.2	0.0-3.3								
18-69	275	0.2	0.0-0.6	272	1.3	0.5-2.2								

Table 10. Mean amount of tobacco used by current daily smokers by type and age, by women

	Mean amount of tobacco used by daily smokers by type													
	Women													
Age Group (years)	n	Mean # of manu- factured cig.	95% Cl	n	Mean #of hand- rolled cig.	95% CI	n	Mean # of pipes of tobacco	95% CI	n	Mean #Cigs, cheroots, cigarilos	95% Cl		
18-29	91	12.8	11.9-13.7	94	1.1	0.0-2.6	94	0.0	-	94	0.0	-		
30-44	120	15.6	13.7-17.6	124	0.7	0.0-1.7	125	0.0	-	125	0.0	-		
45-69	72	18.4	15.3-21.5	73	0.7	0.0-1.5	73	0.0	-	73	0.0	-		
18-69	283	15.2	14.2-16.3	291	0.9	0.2-1.6	292	0.0	-	292	0.0	-		

	Mean amount of tobacco used by daily smokers by type													
						Women								
Age Group (years))	n	Mean # of Shisha.	95% CI	n	Mean # Others	95% CI								
18-29	94	0.1	0.0-0.3	93	0.8	0.0-1.8								
30-44	125	0.0	-	124	1.5	0.2-2.7								
45-69	73	0.0	-	72	1.3	0.0-3.3								
18-69	292	0.0	0.0-0.1	289	1.2	0.2-2.2								

Table 12. Percentage of daily smokers smoking given quantities of manufactured or hand-rolled cigarettes per day, by men

F	Percentage of daily smokers smoking given quantities of manufactured or hand-rolled cigarettes per day													
Ago							Men							
Age Group		%	95%	%		%	95%	% 15-	95%	%	95%			
(years)	n	<5 cigs.	CI	5-9 cigs.	95% CI	10-14 cigs.	CI	24 cigs.	CI	≥ 25 cigs.	CI			
18-29	127	11.0	5.4-16.7	14.2	7.2-21.2	18.9	11.5-26.3	40.9	32.7-49.1	15.0	11.1-18.9			
30-44	87	4.6	0.0-9.2	11.5	3.6-19.3	18.4	12.5-24.3	44.8	34.8-54.9	20.7	13.2-28.2			
45-69	44	11.4	3.0-19.7	9.1	0.0-18.7	2.3	0.0-7.1	40.9	21.5-60.3	36.4	23.2-49.5			
18-29	258	8.9	4.7-13.2	12.4	6.3-18.6	16.0	11.1-20.9	42.2	34.1-50.4	20.4	16.1-24.7			

Table 13. Percentage of daily smokers smoking given quantities of manufactured or hand-rolled cigarettes per day, by women

F	ercent	age of c	laily smoker	s smokin	ıg given qua	ntities of	f man	ufactu	ed or ha	nd-rolled cig	jarettes per d	day
٨٥٥						Wo	omen					
Age Group (years)	n $\begin{pmatrix} % < 5 \\ \text{cigs.} \end{pmatrix}$ $\begin{pmatrix} 95\% \\ \text{CI} \end{pmatrix}$ $\begin{pmatrix} % 5-9 \\ \text{cigs.} \end{pmatrix}$ $\begin{pmatrix} 95\% \\ \text{CI} \end{pmatrix}$ $\begin{pmatrix} % \\ 15-24 \\ \text{cigs.} \end{pmatrix}$ $\begin{pmatrix} 95\% \\ \text{CI} \end{pmatrix}$ $\geq 25 \text{ cigs.}$ $\begin{pmatrix} 95\% \\ \text{CI} \end{pmatrix}$											
18-29	85	11.8	5.0-18.5	18.8	11.7-25.9	20.0	10.6	5-29.4	42.4	34.1-50.6	7.1	0.9-13.3
30-44	118	9.3	5.8-12.9	13.6	4.9-22.2	18.6	13.1	1-24.2	48.3	39.0-57.7	10.2	4.3-16.1
45-69	70	70 5.7 0.0-11.6 11.4 1.0-21.8 18.6 11.4-25.7 44.3 28.1-60.5 20.0 11.4-28.6										
18-69	273	9.3	5.4-13.3	15.0	9.4-20.6	19.1	13.8	3-24.5	45.0	39.0-51.0	11.5	7.8-15.2

Table 14. Mean years since cessation

,,														
	Mean years since cessation													
A ma Charles		Mer	1		Women			Both Sex	xes					
Age Group (years)	5	Mean 95% CI n Mean 95% CI n 95% CI												
(years)	n	years	95% CI	П	years	95% CI	П	years	95% CI					
18-29	24	2.6	0.0-7.8	39	2.6	-	63	2.6	-					
30-44	32	6.5	4.0-9.0	50	8.4	-	82	7.5	-					
45-69	32	20.9	16.2-25.5	55	15.4	-	87	17.5	-					
18-69	88	10.5	7.7-13.4	144	9.1	-	233	9.7	-					

Table 15. Percentage of respondents who use smokeless tobacco, by men

	Smokeless tobacco use												
	Men												
Age Group			Current		% Does								
(years)	n	% Daily	95% CI	% Non- daily	95% CI	not use smokeless tobacco	95% CI						
18-29	271	0.4	0.0-1.1	-	-	99.3	99.5-100.0						
30-44	229	0.0	0.0-0.0	-	-	100.0	99.1-100.0						
45-69	150	0.0	0.0-0.0	-	-	100.0	99.6-100.0						
18-69	650	0.2	0.0-0.5	-	99.8	98.4-100.0							

Table 16. Percentage of respondents who use smokeless tobacco, by women

Smokeless tobacco use											
				Women							
Ago Group				% Does							
Age Group (years)	n			not use	95% CI						
(years)	n	% Daily	95% CI	smokeless	95% CI						
				daily		tobacco					
18-29	266	-		-		100					
30-44	276	-		-		100					
45-69	193	-		-		100					
18-69	735	-		-		100					

3.0 Alcohol Consumption

Table 17. Percentage of those who stopping drinking due to health reasons, both sexes combined

	Stopping drinking due to health reasons											
		Men			Women		Both Sexes					
Age Group (years)	n	% stopping due to health reasons	95% CI	n	% stopping due to health reasons	95% CI	n	% stopping due to health reasons	95% CI			
18-29	41	12.2	0.5-23.9	67	23.9	9.3-38.5	108	19.7	8.6-30.8			
30-44	37	13.5	1.7-25.4	76	13.2	4.8-21.5	113	13.3	5.9-20.6			
45-69	41	39.0	18.8-59.2	73	16.4	7.0-25.9	114	24.9	13.8-35.9			
18-69	119	21.6	13.3-29.9	216	18.2	8.8-27.7	335	19.5	10.9-28.1			

Table 18. Percentage of current drinkers with different drinking levels, by men

ŀ	High-end, in	termediate, and	l lower-end leve	el drinking among o	current (past 30	days) drinkers	5
				Men			
Age Group		% high-		%		% lower-	
(years)	n	end	95% CI	intermediate	95% CI	end	95% CI
		(≥60g)		(40-59.9g)		(<40g)	
18-29	100	13.0	6.6-19.4	7.0	2.9-11.1	80.0	75.7-84.3
30-44	101	9.9	7.1-12.7	10.9	3.6-18.2	79.2	71.1-87.4
45-69	38	10.5	0.4-20.6	5.3	0.0-12.6	84.2	70.8-97.6
18-69	239	11.3	7.8-14.8	8.4	5.0-11.8	80.3	76.9-83.8

Table 19. Percentage of current drinkers with different drinking levels, by women

	High-end, in	termediate, and	l lower-end leve	el drinking among o	current (past 30	days) drinkers	S
				Women			
Age Group		% high-		%		% lower-	
(years)	n	end	95% CI	intermediate	95% CI	end	95% CI
		(≥40g)		(20-39.9g)		(<20g)	
18-29	46	15.2	0.0-32.6	4.3	0.0-10.9	80.4	63.8-97.1
30-44	48	8.3	0.5-16.2	14.6	4.0-25.2	77.1	63.3-90.9
45-69	16	12.5	0.0-25.2	0.0	0.0-0.0	87.5	74.8-100.0
18-69	110	12.3	3.4-21.3	7.5	2.2-12.7	80.2	73.1-87.3

Table 20. Mean number of times current drinkers consumed six or more drinks on a single occasion in the past 30 days, among current drinkers, by gender

Mean num	Mean number of times with six or more drinks during a single occasion in the past 30 days among current drinkers											
		Men			Women		Both Sexes					
Age Group		Mean			Mean			Mean				
(years)	n	number	95% CI	n	number	95% CI	n	number	95% CI			
		of times			of times			of times				
18-29	102	3.7	2.8-4.6	41	2.6	1.7-3.4	143	3.4	2.6-4.1			
30-44	98	5.1	3.9-6.2	48	4.2	3.1-5.3	146	4.8	4.2-5.5			
45-69	37	6.6	3.5-9.7	15	1.5	0.8-2.1	52	5.2	2.8-7.5			
18-69	237	4.7	3.7-5.7	104	3.0	2.3-3.8	341	4.2	3.5-4.9			

Table 21. Frequency of alcohol consumption among current drinkers in the past 7 days, by men

	Frequency of alcohol consumption in the past 7 days												
Age	Men												
Group (years)	n	% Daily	95% CI	% 5-6 days	95% CI	% 3-4 days	95% CI	% 1-2 days	95% CI	% 0 days	95% CI		
18-29	109	3.7	0.0-7.7	3.7	0.0-7.8	16.5	8.2-24.9	43.1	34.6-51.6	33.0	24.5-41.6		
30-44	102	4.9	0.7-9.1	2.0	0.0-4.7	9.8	2.3-17.3	54.9	42.4-67.4	28.4	17.4-39.5		
45-69	38	18.4	6.0-30.9	2.6	0.0-8.2	18.4	6.0-30.9	31.6	10.7-52.5	28.9	14.3-43.6		
18-69	249	6.4	3.1-9.6	2.8	0.0-5.6	14.1	8.5-19.7	46.2	39.5-52.9	30.6	23.1-38.0		

Table 23. Frequency of alcohol consumption among current drinkers in the past 7 days, by women

	Frequency of alcohol consumption in the past 7 days											
Age		Women										
Group (years)	n	% Daily	95% CI	% 5-6 days	95% CI	% 3-4 days	95% CI	% 1-2 days		% 0 days	95% CI	
18-29	48	6.3	0.0-18.3	4.2	0.0-10.1	0.0	0.0-0.0	47.9	32.3-63.6	41.7	24.3-59.1	
30-44	50	0.0	0.0-0.0	4.0	0.0-9.7	14.0	7.7-20.3	42.0	34.3-49.7	40.0	25.7-54.3	
45-69	16	12.5	0.0-25.2	6.3	0.0-19.4	0.0	0.0-0.0	12.5	0.0-30.0	68.8	46.4-91.1	
18-69	114	4.8	0.0-10.6	4.4	0.9-7.9	5.1	2.1-8.2	40.9	32.7-49.1	44.7	31.7-57.8	

Table 24. Mean number of standard drinks current drinkers consumed on average per day in the past 7 days among current drinkers, by gender

Mean r	Mean number of standard drinks consumed on average per day in the past 7 days among current drinkers											
Ago Group	Men				Women			Both Sexes				
Age Group (years)	n	Mean number	95% CI	n	Mean number	95% CI	n	Mean number	95% CI			
18-29	109	4.8	2.7-6.8	48	4.3	0.0-9.8	157	4.6	1.9-7.3			
30-44	102	3.8	2.3-5.3	50	1.6	0.9-2.2	152	3.2	2.1-4.2			
45-69	38	6.2	2.9-9.5	16	7.0	1.1-13.0	54	6.5	4.0-8.9			
18-69	249	4.6	3.1-6.0	114	3.7	0.9-6.4	363	4.3	2.6-6.0			

Table 25. Percentage of current drinkers who consumed unrecorded alcohol in the past 7 days, by gender

	Consumption of unrecorded alcohol											
		Men			Women			Both Sexes				
Age Group (years)	n	% consuming unrecorded alcohol	95% CI	n	% consuming unrecorded alcohol	95% CI	n	% consuming unrecorded alcohol	95% CI			
18-29	113	1.8	0.0-4.2	52	1.9	0.0-5.5	165	1.8	0.0-3.7			
30-44	103	0.0	0.0-0.0	52	0.0	0.0-0.0	155	0.0	0.0-0.0			
45-69	40	2.5	0.0-7.9	15	0.0	0.0-0.0	55	1.8	0.0-5.9			
18-69	256	1.2	0.0-2.5	119	1.0	0.0-2.9	375	1.1	0.2-2.1			

Table 26. Percentage of drinkers (last 12 months) who were not able to stop drinking once started during the past year, by men

Frequency o	Frequency of not being able to stop drinking once started during the past 12 months among past 12 month drinkers										
	Men										
Age Group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI				
18-29	180	28.9	21.2-36.6	16.1	11.4-20.9	55.0	46.7-63.3				
30-44	148	18.9	10.4-27.5	19.6	13.1-26.1	61.5	52.7-70.3				
45-69	68	23.5	9.7-37.4	22.1	11.4-32.7	54.4	42.1-66.7				
18-69	396	24.3	18.5-30.1	18.4	14.9-21.9	57.3	53.5-61.1				

Table 27. Percentage of drinkers (last 12 months) who were not able to stop drinking once started during the past year, by women

Frequency of not being able to stop drinking once started during the past 12 months among past 12 month drinkers											
	Women										
Age Group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI				
18-29	92	18.5	9.1-27.9	21.7	14.6-28.9	59.8	50.1-69.5				
30-44	95	15.8	8.9-22.7	23.2	13.0-33.3	61.1	48.2-73.9				
45-69	33	12.1	1.7-22.5	30.3	9.3-51.3	57.6	31.7-83.4				
18-69	220	16.6	11.0-22.2	23.5	17.4-29.6	59.9	54.3-65.5				

Table 28. Percentage of past 12 month drinkers failing to do what was normally expected from them because of drinking during the past 12 months, by men

Frequency	Frequency of failing to do what was normally expected from you during the past 12 months among past 12 month											
	drinkers											
	Men											
Age Group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI					
18-29	180	29.4	20.9-37.9	26.7	18.7-34.6	43.9	35.9-51.9					
30-44	148	16.9	8.7-25.1	28.4	19.3-37.5	54.7	45.9-63.6					
45-69	68	23.5	9.2-37.9	20.6	9.2-32.0	55.9	43.5-68.2					
18-69	396	23.8	19.0-28.6	26.3	22.2-30.4	49.9	45.5-54.3					

Table 29. Percentage of past 12 month drinkers failing to do what was normally expected from them because of drinking during the past 12 months, by women

Frequency o	Frequency of failing to do what was normally expected from you during the past 12 months among past 12 month drinkers												
	Women												
Age Group		% monthly											
(years)	n	or more	95% CI	% less than	95% CI	% never	95% CI						
	frequent			monthly									
18-29	92	16.3	5.9-26.7	30.4	22.8-38.1	53.3	42.0-64.6						
30-44	95	11.6	6.5-16.6	26.3	15.1-37.5	62.1	51.9-72.3						
45-69	33	3.0	0.0-9.1	21.2	2.0-40.4	75.8	51.9-99.7						
18-69	220	12.7	7.0-18.3	27.6	21.9-33.3	59.7	52.0-67.4						

Table 30. Percentage of past 12 month drinkers needing a first drink in the morning to get going during the past 12 months, by men

Frequency	Frequency of needing a first drink in the morning to get going during the past 12 months among past 12 month drinkers												
	Men												
Age Group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI						
18-29	180	16.1	10.1-22.2	10.0	5.6-14.4	73.9	66.3-81.4						
30-44	148	11.5	4.7-18.3	11.5	5.3-17.7	77.0	69.8-84.3						
45-69	68	68 20.6 8.3-32.8 8.8 3.3-14.3 70.6 59.6-81.6											
18-69	396												

Table 31. Percentage of past 12 month drinkers needing a first drink in the morning to get going during the past 12 months, by women

Frequency	y of needing a	first drink in t	he morning to ge dri	t going during t nkers	he past 12 month	s among pas	t 12 month							
	Women													
Age Group (years)	n	n or more 95% CI % less than 95% CI % never 9 frequently												
18-29	92	5.4	0.0-11.9	8.7	3.8-13.6	85.9	77.9-93.9							
30-44	95	4.2	0.4-8.0	12.6	5.3-20.0	83.2	74.5-91.9							
45-69	33	33 3.0 0.0-9.1 12.1 2.3-22.0 84.8 71.9-97.8												
18-69														

Table 32. Percentage and regularity of family/partner problems due to someone else's drinking during the past 12 months, by men

Frequency of 1	Frequency of family/partner problems due to someone else's drinking during the past 12 months among all respondents													
				Men										
Age Group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI							
18-29	271	4.4	1.9-6.9	28.8	23.0-34.6	66.8	60.3-73.3							
30-44	229	2.6	0.9-4.3	25.8	19.7-31.8	71.6	64.7-78.5							
45-69	150	5.3	1.5-9.1	18.0	12.2-23.8	76.7	68.7-84.6							
18-69	650	4.0	2.2-5.8	25.3	21.8-28.8	70.7	66.0-75.4							

Table 33. Percentage and regularity of family/partner problems due to someone else's drinking during the past 12 months, by women

Frequency of	Frequency of family/partner problems due to someone else's drinking during the past 12 months among all respondents													
				Women										
Age Group (years)	n	% monthly or more frequently	95% CI	% less than monthly	95% CI	% never	95% CI							
18-29	266	2.3	0.5-4.0	23.3	16.8-29.8	74.4	67.6-81.3							
30-44	276	5.4	2.3-8.6	24.3	20.3-28.3	70.3	65.2-75.4							
45-69	193	2.1	0.0-4.4	16.6	9.2-24.0	81.3	73.8-88.8							
18-69	735	3.2	2.0-4.4	21.9	17.5-26.3	74.9	70.1-79.7							

4.0 Expanded Questions: KAVA

Table 34 Percentage of respondents drinking alcohol during/after drinking Kava, both sexes combined

	Percentage of respondents drinking alcohol during/after drinking Kava													
		Men			Women		Both Sexes							
Age		% alcohol			% alcohol			% alcohol						
Group	2	consumption	95% CI	5	consumption	95% CI	'n	consumption	0E0/. CI					
(years)	n	during/after	95% CI	n	during/after	93% CI	n	during/after	95% CI					
		kava session			kava session			kava session						
18-29	53	37.7	20.6-54.9	34	29.4	8.7-50.1	87	34.3	20.9-47.7					
30-44	58	41.4	30.1-52.7	48	27.1	14.6-39.5	106	35.7	27.3-44.1					
45-69	30	33.3	13.9-52.8	28	21.4	2.6-40.2	58	27.8	16.7-38.8					
18-69	141	38.3	28.9-47.8	110	26.5	19.2-33.8	251	33.4	26.5-40.2					

Table 35. Percentage of food and drinks consumed during/after drinking kava by both sexes

	Percentage of food and drinks consumed during/after drinking kava													
Age Group		Both Sexes												
(years)	n	% Soft drinks 95% CI Sweets 95% CI Snacks 95% CI % Others 95% CI												
18-29	56	7.1	1.0-13.1	7.4	2.9-11.8	1.7	0.0-5.3	83.9	74.5-93.2					
30-44	60	8.0	0.0-20.9	8.0	0.0-16.6	5.5	0.0-11.0	78.5	62.4-94.5					
45-69	38	0.0	0.0-0.0	0.0	0.0-0.0	15.8	3.5-28.1	84.2	71.9-96.5					
18-69	154	54 5.7 1.2-10.2 5.8 1.5-10.1 6.5 2.9-10.0 82.0 73.6-90.4												

Fruit and Vegetable Consumption

Table 36. Mean number of servings of fruit on average per day, by gender

	Mean number of servings of fruit on average per day												
		Men			Women		Both Sexes						
Age Group (years)	n number of servings		95% CI	n	Mean number of servings	95% CI	n	Mean number of servings	95% CI				
18-29	265	0.6	0.5-0.7	256	0.5	0.3-0.6	521	0.5	0.4-0.6				
30-44	224	0.6	0.5-0.7	272	0.6	0.4-0.8	496	0.6	0.5-0.7				
45-69	145	0.5	0.3-0.7	187	0.4	0.3-0.5	332	0.5	0.3-0.6				
18-69	634	0.6	0.5-0.7	715	0.5	0.4-0.6	1349	0.5	0.5-0.6				

Table 37. Mean number of servings of vegetables on average per day, by gender

	Mean number of servings of vegetables on average per day												
		Men			Women		Both Sexes						
Age Group (years)	n	Mean number of servings	95% CI	n	Mean number of servings	95% CI	n	Mean number of servings	95% CI				
18-29	261	0.6	0.5-0.8	254	0.6	0.4-0.8	515	0.6	0.5-0.8				
30-44	223	0.7	0.5-1.0	270	1.0	0.7-1.2	493	0.8	0.6-1.1				
45-69	145	0.7	0.4-1.0	187	0.6	0.5-0.8	332	0.7	0.5-0.8				
18-69	629 0.7 0.6-0.8			711	0.7	0.6-0.9	1340	0.7	0.6-0.8				

Table 37. Percentage of the number servings of fruit and/or vegetables on average per day, by men

	Number of servings of fruit and/or vegetables on average per day														
٨٥٥		Men													
Age Group (years)	n	% no fruit and/or vegetables	95% CI	% 1-2 servings	95% CI	% 3-4 servings 95% CI		% ≥5 servings	95% CI						
18-29	267	62.9	57.5-68.4	25.5	19.4-31.5	6.4	3.5-9.3	5.2	2.3-8.2						
30-44	226	61.9	55.4-68.5	27.4	21.3-33.6	5.8	2.9-8.6	4.9	2.1-7.6						
45-69	147	62.6	52.9-72.3	25.9	18.4-33.3	5.4	1.2-9.7	6.1	1.7-10.5						
18-69	640	62.5 58.4-66.6 26.2 21.9-30.6 5.9 3.9-7.9 5.3 3.5-7.1													

Table 38. Percentage of the number servings of fruit and/or vegetables on average per day, by women

	Number of servings of fruit and/or vegetables on average per day														
Ago					Women										
Age Group (years)	n	% no fruit and/or vegetables	95% CI	% 1-2 servings	95% CI	% 3-4 servings	95% CI	% ≥5 servings	95% CI						
18-29	261	64.4	58.0-70.7	25.3	18.8-31.8	6.9	1.3-12.5	3.4	1.2-5.7						
30-44	275	52.7	43.0-62.4	33.8	25.9-41.7	6.5	3.4-9.7	6.9	3.2-10.6						
45-69	190	62.6	55.4-69.9	25.8	21.4-30.2	9.5	5.1-13.9	2.1	0.0-4.3						
18-69	726	726 60.2 54.7-65.7 28.1 23.0-33.3 7.4 4.6-10.3 4.2 2.7-5.7													

5.0 Dietary salt

Table 39. Percentage who self-reported how much salt they consumed, by men

	Self-reported quantity of salt consumed													
						Men								
Age Group (years)	n	% Far too much	95% CI	% Too much	95% CI	% Just the right amount	95% CI	% Too little	95% CI	% Far too little	95% CI			
18-29	258	15.9	10.0-21.8	24.4	18.3-30.6	50.0	41.8-58.2	6.6	4.0-9.2	3.1	0.2-6.0			
30-44	218	12.4	9.9-14.8	18.8	13.8-23.8	53.7	46.7-60.7	10.6	5.7-15.4	4.6	1.8-7.4			
45-69	145	8.3	2.3-14.2	14.5	7.8-21.2	57.9	47.2-68.7	12.4	8.8-16.0	6.9	1.5-12.3			
18-69	621	12.9	9.6-16.3	20.2	16.8-23.6	53.1	48.5-57.7	9.3	7.2-11.4	4.5	2.3-6.7			

Table 40. Percentage who self-reported how much salt they consumed, by women

	Self-reported quantity of salt consumed Women														
Age Group (years)	n	% Far too much	95% CI	% Too much	95% CI	% Just the right amount	95% CI	% Too little	95% CI	% Far too little	95% CI				
18-29	254	17.3	10.4-24.2	23.2	17.9-28.5	50.0	41.7-58.3	5.9	3.3-8.5	3.5	1.4-5.7				
30-44	267	12.4	8.5-16.2	24.3	19.2-29.5	47.6	40.9-54.2	10.9	6.9-14.9	4.9	1.9-7.8				
45-69	193	11.4	6.0-16.8	18.7	11.3-26.0	50.3	44.3-56.2	13.0	7.5-18.4	6.7	2.9-10.6				
18-69	714	14.2	10.6-17.8	22.4	19.3-25.4	49.3	43.8-54.8	9.3	6.5-12.1	4.8	3.3-6.3				

Table 41. Percentage of those who stated the different importance of lowering salt in diet, by men

			Importance	of lowering salt in	diet						
	Men										
Age Group (years)	n	% Very important	95% CI	% Somewhat important	Somewhat 95% CI Not at all		95% CI				
18-29	218	72.9	67.3-78.6	14.2	9.9-18.5	12.8	7.2-18.5				
30-44	206	68.9	60.0-77.8	20.9	13.9-27.9	10.2	5.5-14.9				
45-69	146	78.8	72.9-84.6	13.7	7.6-19.8	7.5	3.1-12.0				
18-69	570	73.0	67.6-78.3	16.5	13.5-19.5	10.6	7.2-13.9				

Table 42. Percentage of those who stated the different importance of lowering salt in diet, by women

			Importance	of lowering salt in	diet							
Age	Women											
Group (years)	n	% Very important	95% CI	% Somewhat important	95% CI	% Not at all important	95% CI					
18-29	243	70.4	62.5-78.3	16.0	10.4-21.7	13.6	7.7-19.5					
30-44	257	71.6	65.4-77.8	12.8	8.5-17.1	15.6	11.2-19.9					
45-69	177	76.8	70.6-83.0	10.2	5.5-14.9	13.0	8.3-17.7					
18-69	677	72.4	67.1-77.7	13.5	10.4-16.6	14.1	9.9-18.2					

6.0 Physical Activity

Table 43. Percentage of respondent's level of total physical activity, by men

			Level of total p	hysical activity	/							
Age Group		Men										
Age Group (years)	n	% Low	95% CI	% Moderate	95% CI	% High	95% CI					
18-29	260	21.9	14.5-29.4	11.9	8.4-15.4	66.2	59.0-73.3					
30-44	221	35.7	28.5-43.0	20.4	15.0-25.7	43.9	33.8-54.0					
45-69	145	145 55.2 42.8-67.5 20.7 14.6-26.8 24.1 14.4-33.9										
18-69	626	34.3	27.7-40.9	16.9	14.7-19.0	48.9	41.8-55.9					

Table 44. Percentage of respondent's level of total physical activity, by women

	Level of total physical activity											
Ago Group		Women										
Age Group (years)	n	% Low	95% CI	% Moderate	95% CI	% High	95% CI					
18-29	263	61.2	55.3-67.1	15.6	12.4-18.7	23.2	17.5-28.9					
30-44	264	44.3	39.0-49.6	23.5	17.7-29.3	32.2	25.7-38.7					
45-69	189	189 54.5 41.9-67.1 22.8 16.2-29.3 22.8 14.6-30.9										
18-69	716	716 54.3 48.9-59.6 19.9 16.4-23.4 25.9 21.7-30.0										

Table 45. Percentage of respondent's level of total physical activity, by both sexes

	Level of total physical activity											
Ago Group		Both Sexes										
Age Group (years)	n	% Low	95% CI	% Moderate	95% CI	% High	95% CI					
18-29	523	42.6	37.5-47.6	13.8	11.3-16.4	43.6	37.8-49.4					
30-44	485	39.9	35.1-44.8	21.9	18.3-25.5	38.2	31.6-44.7					
45-69	334	334 54.8 44.1-65.5 21.8 16.7-27.0 23.4 16.2-30.6										
18-69	1342	44.7	39.5-49.8	18.4	16.4-20.4	36.9	31.6-42.3					

Table 46. Mean minutes spent in sedentary activities on average per day, by men

	Minutes s	pent in sedentary	activities on ave	rage per day	
			Men		
Age Group (years)	n	Mean minutes	95% CI	Median minutes	Inter-quartile range (P25-P75)
18-29	271	323.9	282.9-365.0	300.0	120.0-480.0
30-44	228	348.9	301.7-396.1	300.0	120.0-480.0
45-69	150	377.3	340.1-414.4	360.0	180.0-600.0
18-69	649	344.6	312.2-377.0	300.0	120.0-480.0

Table 47. Mean minutes spent in sedentary activities on average per day, by women

	Minutes s	pent in sedentary	activities on ave	rage per day	
			Women		
Age Group (years)	n	Mean minutes	95% CI	Median minutes	Inter-quartile range (P25-P75)
18-29	266	345.8	296.0-395.6	300.0	180.0-480.0
30-44	275	306.2	288.7-323.6	300.0	120.0-480.0
45-69	193	361.5	307.1-415.9	300.0	120.0-480.0
18-69	734	337.4	306.2-368.6	300.0	120.0-480.0

Table 48. Percentage who stated that these are the main barriers for being physically active, by men

	Main barriers for being physically active												
٨٥٥						Men							
Age Group		% Not		%		% lack of		%		%			
(years)	n	interested	95% CI	No	95% CI	sidewalks	95% CI	Dogs	95% CI	Others	95% CI		
(ycars)		micresica		time		Sidewarks				issues	issues		
18-29	271	1.5	0.1-2.8	22.5	15.2-29.8	39.9	32.1-47.6	4.1	0.2-7.9	32.1	23.4-40.8		
30-44	227	3.1	0.7-5.5	25.1	17.7-32.6	46.7	40.1-53.3	4.0	0.7-7.2	21.1	15.3-27.0		
45-69	150	2.0	0.0-4.1	28.7	21.2-36.2	29.3	20.7-38.0	0.7	0.0-2.0	39.3	33.6-45.1		
18-69	648	2.2	1.2-3.1	24.8	19.5-30.1	39.9	35.5-44.2	3.3	0.4-6.2	29.9	24.5-35.3		

Table 49. Percentage who stated that these are the main barriers for being physically active, by women

	Main barriers for being physically active												
Age	Women												
Group (years)	n	% Not interested	95% CI	% No time	95% CI	% lack of sidewalks	95% CI	% Dogs	95% CI	% Others issues	95% CI		
18-29	266	4.1	1.6-6.7	42.1	36.2-48.0	35.7	31.0-40.4	1.5	0.0-3.1	16.5	12.3-20.8		
30-44	275	2.9	0.5-5.4	31.3	28.3-34.3	46.2	39.7-52.7	1.8	0.0-3.8	17.8	13.6-22.0		
45-69	193	5.7	1.6-9.8	39.9	32.4-47.4	23.3	14.1-32.5	2.1	0.2-3.9	29.0	19.8-38.2		
18-69	734	4.2	1.9-6.4	38.1	35.1-41.2	35.8	32.9-38.7	1.7	0.7-2.8	20.1	17.8-22.5		

7.0 Blood Pressure and Diabetes History

Table 50. Percentage of those who previously diagnosed with raised blood pressure currently taking herbal or traditional remedy

Currer	Currently taking herbal or traditional remedy for high blood pressure among those previously diagnosed										
Age Group		Men			Womei	า	Both Sexes				
(years)	n	%	95% CI	n	%	95% CI	n	%	95% CI		
18-29	43	-	-	25	-	-	68	-	-		
30-44	55	-	-	60	-	-	115	2.9	0.5-5.4		
45-69	50	-	-	67	-	-	117	12.0	5.9-18.1		
18-69	148	6.0	2.7-9.3	152	5.4	1.7-9.0	300	5.7	2.9-8.5		

Table 51. Percentage of those previously diagnosed with raised blood sugar who attended all clinic appointments

	Attended all schedules appointment											
Age Group		Men			Wome	n		Both Se	95% CI			
(years)	n	%	95% CI	n	%	95% CI	n	%	95% CI			
18-29	9	-	-	22	-	-	31	-	-			
30-44	28		-	39	-	-	67	-	-			
45-69	29	-	-	53	-	-	82	-	-			
18-69	66	-	-	114	55.9	46.1-65.7	180	52.9	46.4-59.5			

Table 52. Percentage of those previously diagnosed with diabetes taking insulin prescribed by a doctor or other health worker, among those previously diagnosed by gender

	Currer	ntly taking	insulin prescrib	ed for dial	oetes among	those previo	usly diagr	nosed	
		Men			Women Both Se			Both Sexe	S
Age Group (years)	n	% taking insulin	95% CI	n	% taking insulin	95% CI	n	% taking insulin	95% CI
18-29	11	-	-	29	-	-	40	-	-
30-44	32	-	-	54	-	-	86	-	-
45-69	38	-	-	61	-	-	99	-	-
18-69	81	-	-	144	9.5	3.1-15.9	225	11.0	5.6-16.3

Table 53. Percentage of those previously diagnosed with diabetes currently taking oral drugs prescribed for diabetes among those previously diagnosed, by gender

	Curren	tly taking or	al drugs pres	cribed for	diabetes amo	ng those prev	iously dia	gnosed		
		Men			Women			Both Sexes		
Age Group (years)	n	% taking meds	95% CI	n	% taking meds	95% CI	n	% taking meds	95% CI	
18-29	11	-	-	29	-	-	40	-	-	
30-44	32	-	-	54	-	-	86	-	-	
45-69	38	-	-	61	-	-	99	-	-	
18-69	81	-	-	144	32.7	24.7-40.7	225	35.1	27.5-42.8	

Table 54. Percentage of those previously diagnosed with diabetes who had seen a traditional healer, by gender

	Seen a traditional healer for diabetes among those previously diagnosed											
Age Group		Men			Wome	n	Both Sexes					
(years)	n	%	95% CI	n	%	95% CI	n	%	95% CI			
18-29	11	-	-	29	-	-	40	-	-			
30-44	32	-	-	54	-	-	86	-	-			
45-69	38	-	-	61	-	-	99	-	-			
18-69	81	-	-	144	4.8	1.8-7.8	225	3.9	0.8-7.1			

Table 55. Percentage of those previously diagnosed with diabetes who were currently taking herbal or traditional treatment, by gender

C	Currently taking herbal or traditional treatment for diabetes among those previously diagnosed										
Age Group	Men				Wome	n	Both Sexes				
(years)	n	%	95% CI	n	%	95% CI	n	%	95% CI		
18-29	11	-	-	29	-	-	40	-	-		
30-44	32	-	-	54	-	-	86	-	-		
45-69	38	-	-	61	-	-	99	-	-		
18-69	81	-	-	144	4.0	1.1-6.9	225	5.3	2.4-8.1		

8.0 History of Raised Total Cholesterol

Table 56. Percentage of those previously diagnosed with raised total cholesterol who attended all clinic appointments, by gender

	Attended all schedules appointment											
Age Group		Men			Wome	n		Both Sexes				
(years)	n	%	95% CI	n	%	95% CI	n	%	95% CI			
18-29	6	-	-	2	-	-	8	-	-			
30-44	12	-	-	23	-	-	35	-	-			
45-69	24	-	-	21	-	-	45	-	-			
18-69	42	-	-	46	-	-	88	-	-			

9.0 Cervical Cancer Screening

Table 57. Percentage of female respondents aged 18-69 who have ever had a screening test for cervical cancer among all female respondents aged 18-69 years

Age Group	Women							
(years)	n	% ever tested	95% CI					
18-29	263	49.0	42.6-55.5					
30-44	272	59.6	51.6-67.5					
45-69	192	51.6	43.9-59.2					
18-69	727	53.0	49.4-56.6					

10.0 Mental Health K10 (Mental health disorder)

Table 58. Percentage of respondents with mental health disorder, by men

	Percentage of mental health disorder												
					Men								
Age Group (years)	n	% likely to be well <20	95% CI	% Mild mental disorder 20-24	95% CI	% Moderate mental disorder 25-29	95% CI	% severe mental disorder>=30	95% CI				
18-29	270	60.7	54.7-66.8	24.1	19.8-28.4	11.1	7.0-15.2	4.1	1.2-6.9				
30-44	228	56.6	47.7-65.5	27.6	19.3-36.0	11.8	6.5-17.2	3.9	1.3-6.6				
45-69	150	72.0	65.3-78.7	18.0	12.5-23.5	7.3	4.2-10.5	2.7	0.2-5.1				
18-69	648	61.8	56.1-67.6	24.0	19.6-28.3	10.5	7.6-13.4	3.7	2.3-5.1				

Table 59. Percentage of respondents with mental health disorder, by women

	Percentage of mental health disorder											
					Women							
Age Group (years)	n	% likely to be well <20	95% CI	% Mild mental disorder 20-24	95% CI	% Moderate mental disorder 25-29	95% CI	% severe mental disorder >=30	95% CI			
18-29	266	54.9	43.8-65.9	23.3	17.3-29.3	14.7	9.8-19.5	7.1	3.0-11.3			
30-44	275	51.6	46.9-56.4	24.0	19.4-28.6	17.1	12.7-21.5	7.3	3.6-11.0			
45-69	193	60.6	49.0-72.2	20.7	13.6-27.9	13.0	6.3-19.6	5.7	2.6-8.8			
18-69	734	55.3	47.7-63.0	22.9	19.1-26.7	15.0	11.2-18.8	6.8	3.7-9.9			

Table 60. Percentage of respondents with mental health disorder, by both sexes

			P	ercentage of	mental heal	th disorder			
					Both Se	xes			
Age		% likely		% Mild		% Moderate		% severe	
Group	n	to be	95% CI	mental	95% CI	mental	95% CI	mental	95% CI
(years)	"	well	95% CI	disorder	93% CI	disorder		disorder	
		<20		20-24		25-29		>=30	
18-29	536	57.7	50.1-65.3	23.7	20.0-27.3	13.0	9.2-16.7	5.7	2.5-8.8
30-44	503	54.2	49.5-58.8	25.9	22.0-29.7	14.4	11.6-17.2	5.6	3.4-7.8
45-69	343	65.8	57.8-73.7	19.5	15.3-23.7	10.4	6.9-14.0	4.3	2.1-6.5
18-69	1382	58.5	52.1-64.8	23.4	20.8-26.0	12.8	10.3-15.4	5.3	3.2-7.4

11.0 Physical Measurements

Table 61. Mean heart rate, by gender

	Mean heart rate (beats per minute)											
Age Group		Men			Wome	n		Both Sexes				
(years)	n	mean	95% CI	n	mean	95% CI	n	mean	95% CI			
18-29	201	66.8	65.4-68.2	204	74.1	72.2-76.1	405	70.6	69.3-72.0			
30-44	188	69.5	68.3-70.7	217	72.3	70.9-73.8	405	70.8	69.9-71.8			
45-69	123	70.7	69.4-72.0	163	70.4	68.6-72.1	286	70.5	69.3-71.7			
18-69	512	68.7	67.7-69.6	584	72.5	71.2-73.9	1096	70.7	69.6-71.7			

12.0 Biochemical Measurements

Table 62. Mean fasting plasma glucose (mg/dl), by gender

	Mean fasting blood glucose (mg/dl)											
Age Group	Age Group Men				Wome	n		Both Se	xes			
(years)	n	Mean	95% CI	n	Mean	95% CI	n	Mean	95% CI			
18-29	193	95.8	87.6-104.1	197	102.5	94.6-110.3	390	99.3	92.3-106.4			
30-44	182	118.7	107.8-129.6	210	116.7	105.0-128.5	392	117.7	109.2-126.3			
45-69	118	136.9	128.7-145.1	157	147.7	137.6-157.8	275	142.9	135.3-150.5			
18-69	493	113.8	105.5-122.1	564	119.2	113.7-124.8	1057	116.6	110.5-122.7			

Table 63. Mean total cholesterol (mg/dl), by gender

	Mean total cholesterol (mg/dl)											
Age Group		Me	n		Wome	n		Both Sexes				
(years)	n	Mean	95% CI	n	Mean	95% CI	n	Mean	95% CI			
18-29	193	133.2	121.8-144.6	197	141.0	131.9-150.1	390	137.3	128.6-146.1			
30-44	182	156.6	131.7-181.5	211	150.3	138.4-162.3	393	153.6	135.8-171.4			
45-69	118	153.2	130.1-176.4	157	166.3	158.5-174.0	275	160.5	149.1-171.9			
18-69	493	146.5	129.2-163.8	565	150.8	142.8-158.7	1058	148.7	137.0-160.4			

Table 64. Mean HDL (mmol/L), by gender

	Mean HDL (mmol/L)										
Age Group	Men				Women			Both Sexes			
(years)	n	Mean	95% CI	n	Mean	95% CI	n	Mean	95% CI		
18-29	193	0.7	0.6-0.7	197	0.9	0.8-0.9	390	0.8	0.7-0.8		
30-44	183	0.7	0.6-0.7	211	0.9	0.8-1.0	394	0.8	0.7-0.8		
45-69	118	0.8	0.7-0.8	157	0.9	0.8-1.0	275	0.8	0.8-0.9		
18-69	494	0.7	0.6-0.7	565	0.9	0.8-0.9	1059	0.8	0.7-0.8		

Table 65. Percentage of eligible persons receiving drug therapy and counseling to prevent heart attacks and strokes, by gender

**Perce	entage of eligible persons receiving drug therapy and counseling to prevent heart attacks and strokes								
Age Group	Men			Women			Both Sexes		
(years)	n	%	95% CI	n	%	95% CI	n	%	95% CI
40-54	20	34.7	4.6-64.9	37	16.6	8.2-25.0	57	23.4	9.3-37.6
55-69	14	28.6	7.1-50.1	18	50.0	28.4-71.6	32	40.3	22.4-58.2
40-69	34	32.2	16.2-48.2	55	27.9	15.2-40.5	89	29.6	18.4-40.8

^{**}Counseling is defined as receiving advice from a doctor or other health worker to quit using tobacco or not start, reduce salt in diet, eat at least five servings of fruit and/or vegetables per day, reduce fat in diet, start or do more physical activity, maintain a healthy body weight or lose weight.

