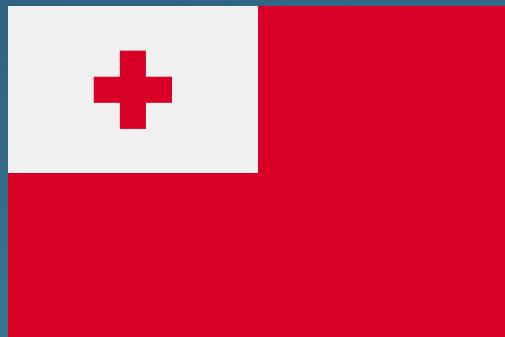




Tonga



Country report card - adults

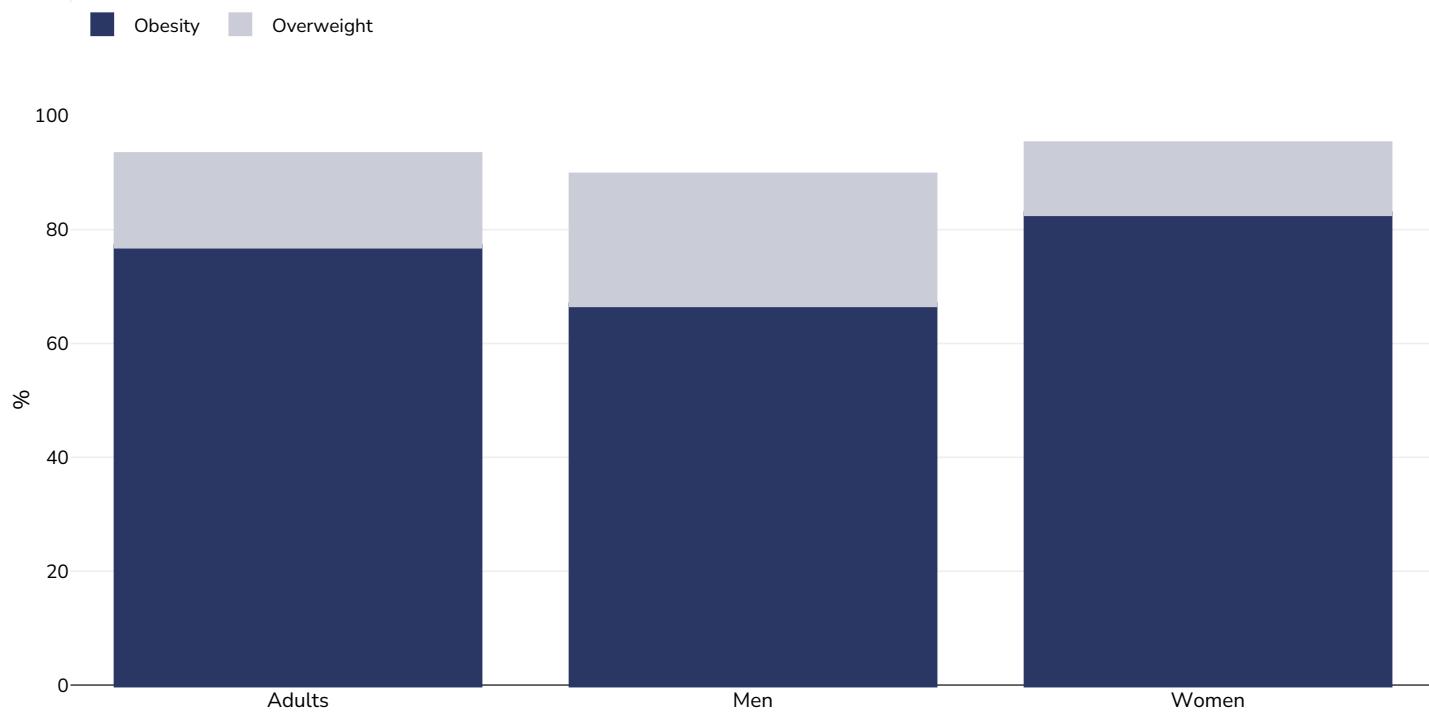
This report card contains the latest data available on the Global Obesity Observatory on overweight and obesity for adults. Where available, data on common and relevant obesity drivers and comorbidities are also presented.

View the latest version of this report on the Global Obesity Observatory at <https://data.worldobesity.org/country/tonga-216/>

Contents	Page
Obesity prevalence	3
Trend: % Adults living with obesity in Tonga 1998-2017	4
Trend: % Adults living with overweight or obesity in Tonga 1998-2017	6
Trend: % Adults living with obesity in selected countries in the Asia/Oceania Region 1975-2019, selected countries	8
Overweight/obesity by age	13
Double burden of underweight & overweight	14
Insufficient physical activity	15
Estimated per capita fruit intake	17
Estimated per-capita processed meat intake	18
Estimated per capita whole grains intake	19
Mental health - depression disorders	20
Mental health - anxiety disorders	24
Raised blood pressure	27
Raised cholesterol	30
Raised fasting blood glucose	33
Diabetes prevalence	35

Obesity prevalence

Adults, 2017

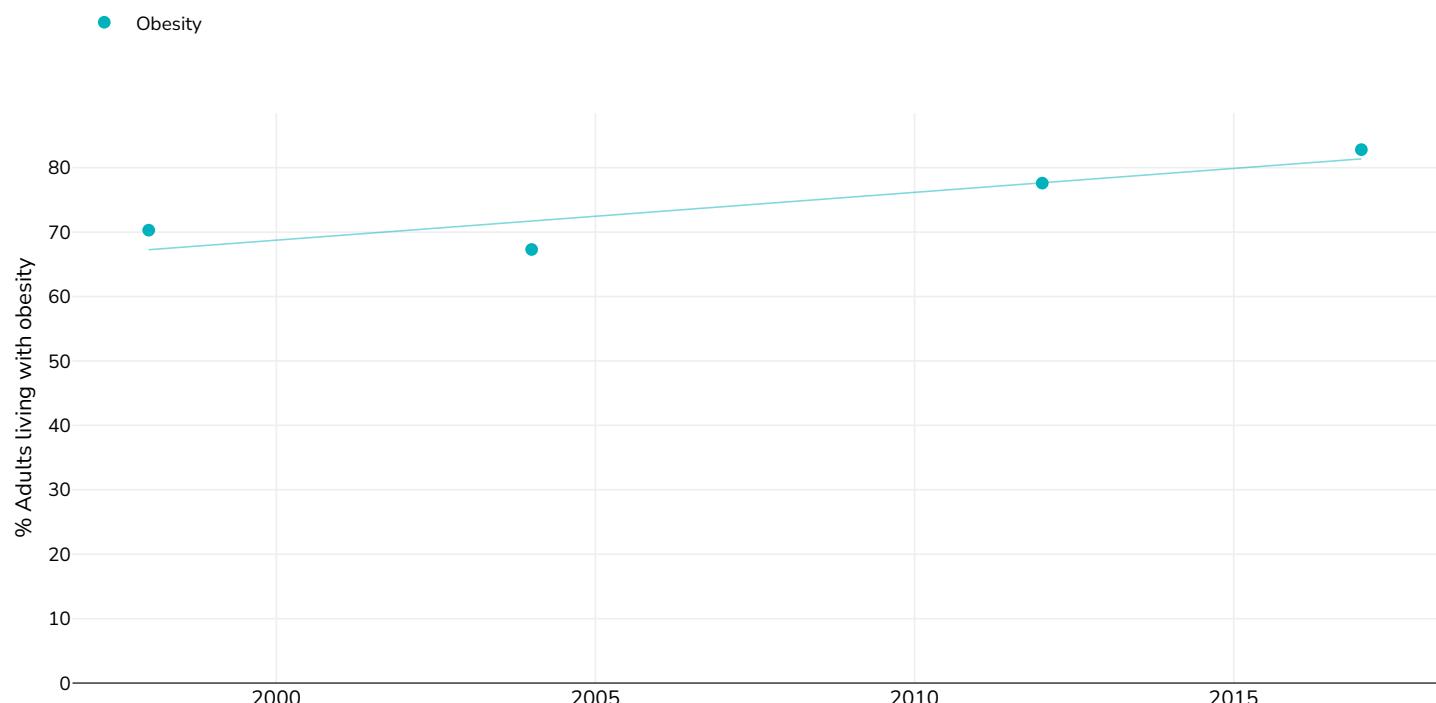


Survey type:	Measured
Age:	18-69
Sample size:	3858
Area covered:	National
References:	Tonga STEPS Survey 2017 https://extranet.who.int/ncdsmicrodata/index.php/catalog/713 (Last accessed 13.10.20)

Unless otherwise noted, overweight refers to a BMI between 25kg and 29.9kg/m², obesity refers to a BMI greater than 30kg/m².

% Adults living with obesity in Tonga 1998-2017

Women


Survey type:

Measured

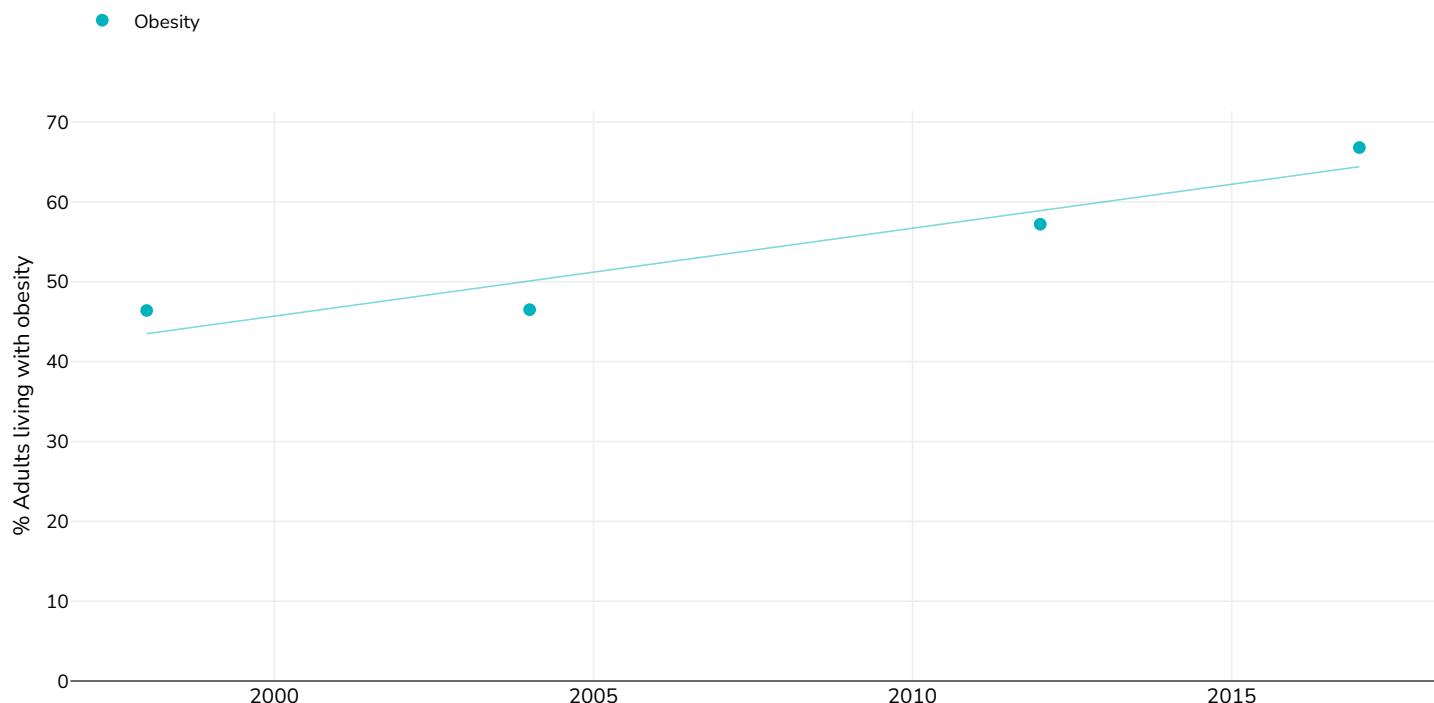
References:

- 1998: Colaguir S, Colagiuri R, Na'ati S, Muimuiheata S, Hussain Z and Palau T. (2002). The prevalence of diabetes in the Kingdom of Tonga. *Diabetes care*, 25: 1378 - 1383.
 2004: Tonga STEPS Survey 2004
 2012: STEPS Survey Tonga 2012 available at https://www.who.int/ncds/surveillance/steps/2012_Tonga_STEPSReport.pdf (last accessed 04.05.2020)
 2017: Tonga STEPS Survey 2017 <https://extranet.who.int/ncdsmicrodata/index.php/catalog/713> (Last accessed 13.10.20)

Unless otherwise noted, overweight refers to a BMI between 25kg and 29.9kg/m², obesity refers to a BMI greater than 30kg/m².

Different methodologies may have been used to collect this data and so data from different surveys may not be strictly comparable. Please check with original data sources for methodologies used.

Men



Survey type:

Measured

References:

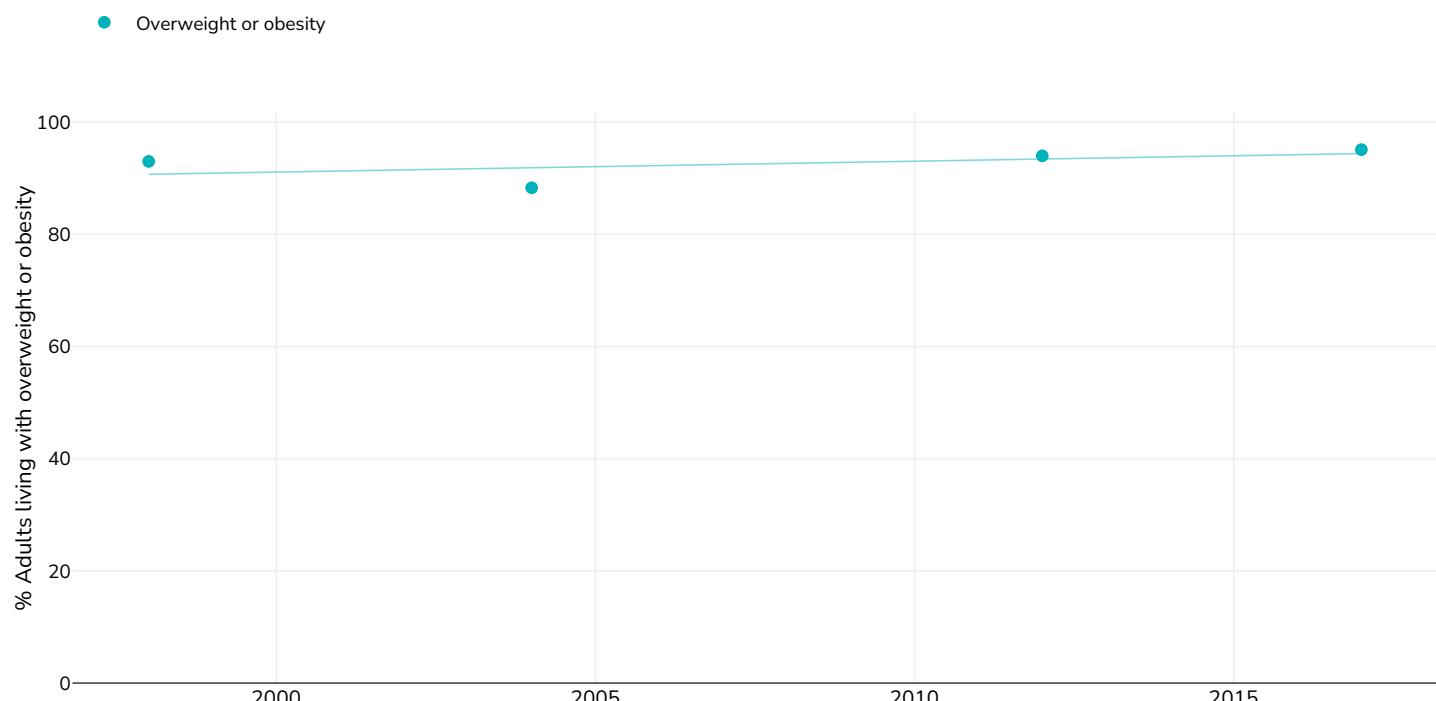
- 1998: Colaguir S, Colagiuri R, Na'ati S, Muimuiheata S, Hussain Z and Palau T. (2002). The prevalence of diabetes in the Kingdom of Tonga. *Diabetes care*, 25: 1378 - 1383.
- 2004: Tonga STEPS Survey 2004
- 2012: STEPS Survey Tonga 2012 available at https://www.who.int/ncds/surveillance/steps/2012_Tonga_STEPSReport.pdf (last accessed 04.05.2020)
- 2017: Tonga STEPS Survey 2017 <https://extranet.who.int/ncdsmicrodata/index.php/catalog/713> (Last accessed 13.10.20)

Unless otherwise noted, overweight refers to a BMI between 25kg and 29.9kg/m², obesity refers to a BMI greater than 30kg/m².

Different methodologies may have been used to collect this data and so data from different surveys may not be strictly comparable. Please check with original data sources for methodologies used.

% Adults living with overweight or obesity in Tonga 1998-2017

Women



Survey type:

Measured

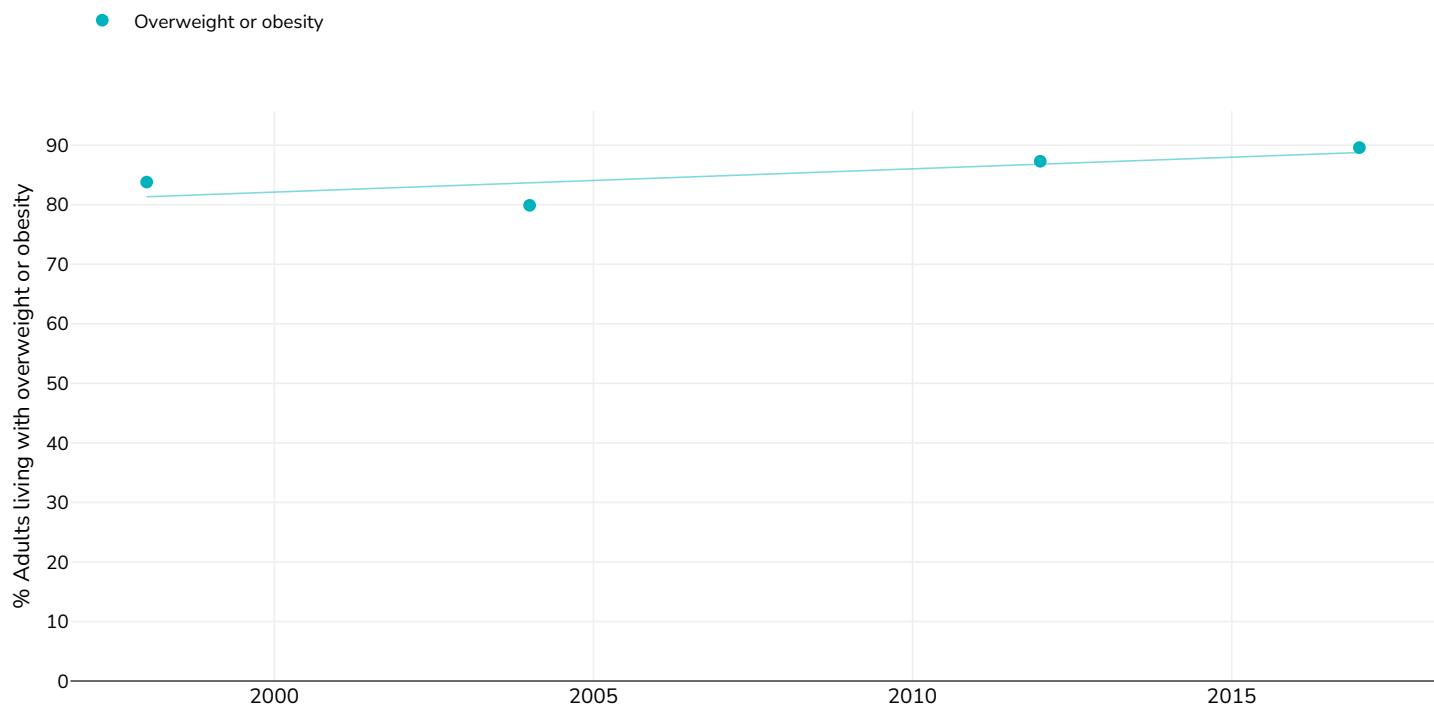
References:

- 1998: Colaguir S, Colagiuri R, Na'ati S, Muimuiheata S, Hussain Z and Palau T. (2002). The prevalence of diabetes in the Kingdom of Tonga. *Diabetes care*, 25: 1378 - 1383.
- 2004: Tonga STEPS Survey 2004
- 2012: STEPS Survey Tonga 2012 available at https://www.who.int/ncds/surveillance/steps/2012_Tonga_STEPSReport.pdf (last accessed 04.05.2020)
- 2017: Tonga STEPS Survey 2017 <https://extranet.who.int/ncdsmicrodata/index.php/catalog/713> (Last accessed 13.10.20)

Unless otherwise noted, overweight refers to a BMI between 25kg and 29.9kg/m², obesity refers to a BMI greater than 30kg/m².

Different methodologies may have been used to collect this data and so data from different surveys may not be strictly comparable. Please check with original data sources for methodologies used.

Men



Survey type:

Measured

References:

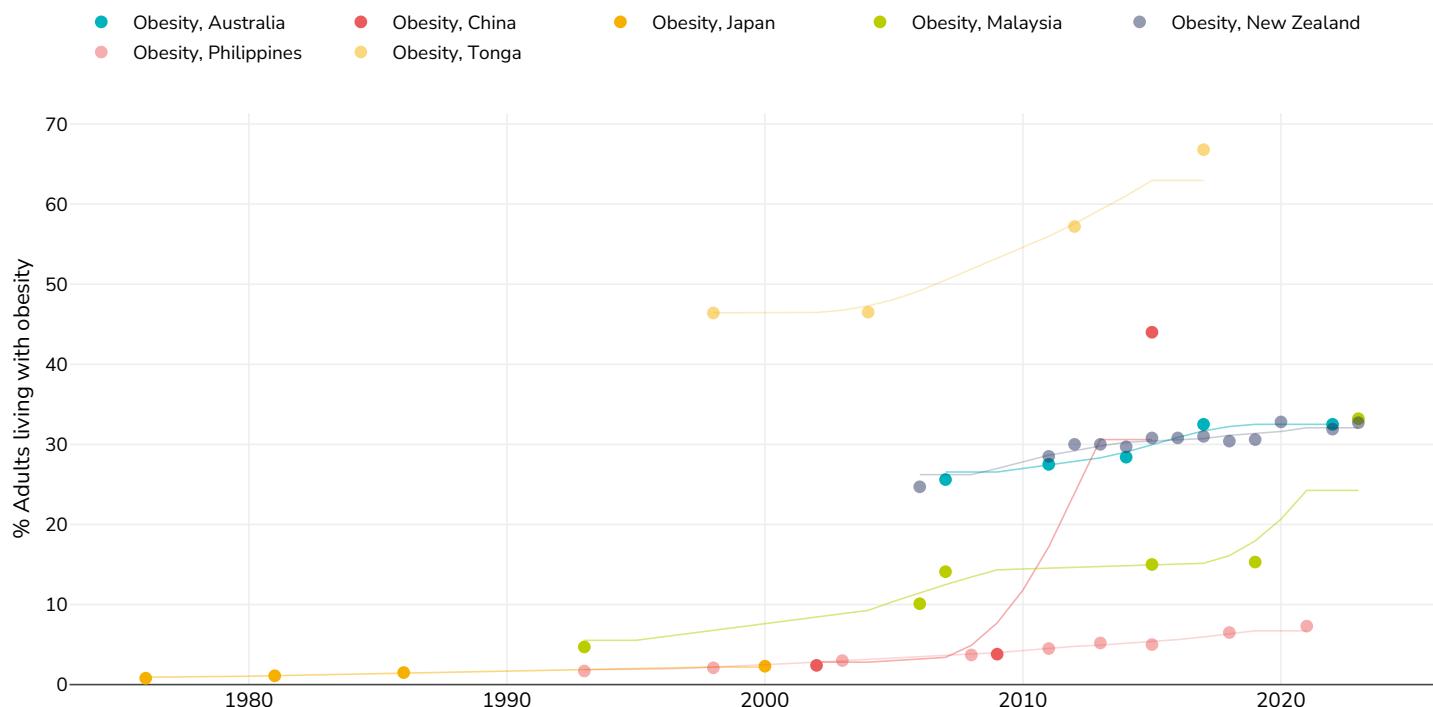
- 1998: Colaguir S, Colagiuri R, Na'ati S, Muimuiheata S, Hussain Z and Palau T. (2002). The prevalence of diabetes in the Kingdom of Tonga. *Diabetes care*, 25: 1378 - 1383.
- 2004: Tonga STEPS Survey 2004
- 2012: STEPS Survey Tonga 2012 available at https://www.who.int/ncds/surveillance/steps/2012_Tonga_STEPSReport.pdf (last accessed 04.05.2020)
- 2017: Tonga STEPS Survey 2017 <https://extranet.who.int/ncdsmicrodata/index.php/catalog/713> (Last accessed 13.10.20)

Unless otherwise noted, overweight refers to a BMI between 25kg and 29.9kg/m², obesity refers to a BMI greater than 30kg/m².

Different methodologies may have been used to collect this data and so data from different surveys may not be strictly comparable. Please check with original data sources for methodologies used.

% Adults living with obesity in selected countries in the Asia/Oceania Region 1975-2019, selected countries

Men



References:

- 1976, 1981, 1986: Yoshiike N, Seino F, Tajima S, Arai Y, Kawano M, Furuhata T, Inoue S. Twenty-year changes in the prevalence of overweight in Japanese adults: The National Nutrition Survey 1976-95. *Obesity Reviews* 2002;3:183-190

1993: Ismail MN, Zawah H, Chee SS, Ng KK. Prevalence of obesity and chronic energy deficiency (CED) in adult Malaysians. *Malays J Nutrition*. 1995; 1:1-9

1995, 1996: Martorell R, Khan LK, Hughes ML, Grummer Strawn LM. Obesity in women from developing countries. *EJCN* (2000) 54:247-252

1998: Data provided by the Philippine Department of Health, Dr C. Barbu, data reanalysed by Dr Charmaine Duante.

2000: Asia Pacific Cohort Studies Collaboration. The burden of overweight and obesity in the Asia-Pacific region. *Obesity Reviews* 2007;8:191-196.

2001: SCN (2004). 5th Report on the World Nutrition Situation. Nutrition for Improved Development Outcomes. Appendix 11

2002: Report of the 2002 China National Nutrition and Health Survey. 2004. (In Chinese). Chinese Ministry of Public Health (CMPH).

2003: <http://www.fnri.dost.gov.ph/files/fnri%20files/nns/factsandfigures2003/anthropometric.pdf> (last accessed June 14th 2011)

2004: Tonga STEPS Survey 2004

2005: Chang HC, Yang HC, Chang HY, et al. Morbid obesity in Taiwan: Prevalence, trends, associated social demographics, and lifestyle factors. *PLoS One*. 2017;12(2):e0169577. Published 2017 Feb 2. doi:10.1371/journal.pone.0169577

2006: Gerritsen S, Stefanogiannis N, Galloway Y, Devlin M, Templaton R and Yeh L. A portrait of health: key results of the 2006/07 New Zealand Health Survey.

2007: National Institute of Population Research and Training (NIPORT), Mitra and Associates, and Macro International. 2008. Bangladesh Demographic and Health Survey 2007: Key Findings. Calverton, Maryland, USA: NIPORT, Mitra and Associates, and Macro International.

2008: Food and Nutrition Research Institute-Department of Science and Technology (FNRI-DOST). 2010. Philippine Nutrition Facts and Figures 2008. DOST Complex, FNRI Bldg., Bicutan, Taguig City, Metro Manila, Philippines.

2009: Yan, S., Li, J., Li, S., Zhang, B., Du, S., Gordon-Larsen, P., Adair, L. and Popkin, B. (2012), The expanding burden of cardiometabolic risk in China: the China Health and Nutrition Survey. *Obesity Reviews*. doi: 10.1111/j.1467-789X.2012.01016.x

2011: Food and Nutrition Research Institute – Department of Science and Technology (FNRI-DOST). 2012. Philippine Nutrition Facts and Figures 2011. DOST Complex, FNRI Bldg., Bicutan, Taguig City, Metro Manila, Philippines. <https://enutrition.fnri.dost.gov.ph/facts-and-figures.php?year=2011> [Accessed 14.07.25]

2012: STEPS Survey Tonga 2012 available at https://www.who.int/ncds/surveillance/steps/2012_Tonga_STEPSReport.pdf (last accessed 04.05.2020)

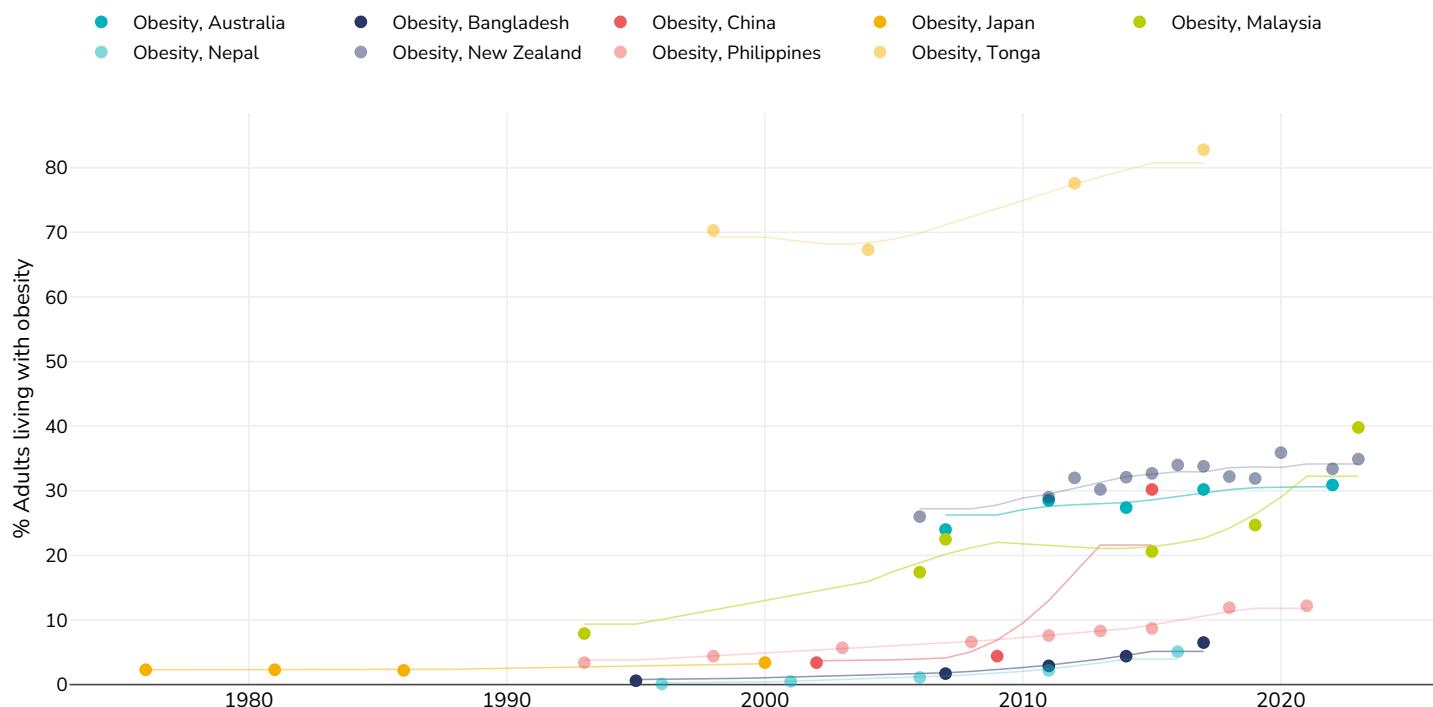
2013: <http://www.health.govt.nz/publication/annual-update-key-results-2013-14-new-zealand-health-survey>

2014: Australian National Health Survey, 2014-15 First Results. Australian Bureau of Statistics. <http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/4364.0.55.001Appendix22014-15?opendocument&tabname=Notes&prodno=4364.0.55.001&issue=2014-15&num=&view=> (last accessed 27th September 2017)

2015: Li, Y., Teng, D., Shi, X., Teng, X., Teng, W., Shan, Z., Lai, Y. and China National Diabetes and Metabolic Disorders Study Group.

Different methodologies may have been used to collect this data and so data from different surveys may not be strictly comparable. Please check with original data sources for methodologies used.

Women

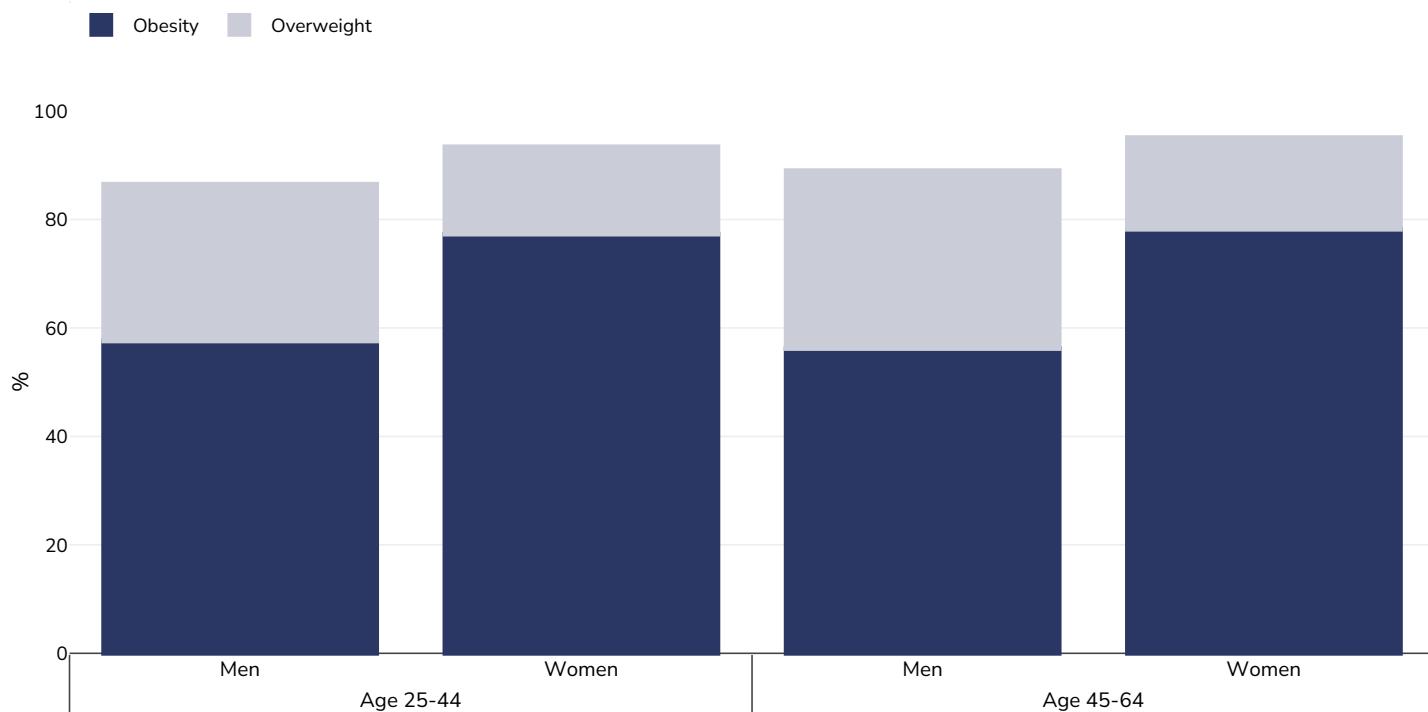

References:

- 1976, 1981, 1986: Yoshiike N, Seino F, Tajima S, Arai Y, Kawano M, Furuhata T, Inoue S. Twenty-year changes in the prevalence of overweight in Japanese adults: The National Nutrition Survey 1976-95. *Obesity Reviews* 2002;3:183-190
- 1993: Ismail MN, Zawah H, Chee SS, Ng KK. Prevalence of obesity and chronic energy deficiency (CED) in adult Malaysians. *Malays J Nutrition*. 1995; 1:1-9
- 1995, 1996: Martorell R, Khan LK, Hughes ML, Grummer Strawn LM. Obesity in women from developing countries. *EJCN* (2000) 54:247-252
- 1998: Data provided by the Philippine Department of Health, Dr C. Barbu, data reanalysed by Dr Charmaine Duante.
- 2000: Asia Pacific Cohort Studies Collaboration. The burden of overweight and obesity in the Asia-Pacific region. *Obesity Reviews* 2007;8:191-196.
- 2001: SCN (2004). 5th Report on the World Nutrition Situation. Nutrition for Improved Development Outcomes. Appendix 11
- 2002: Report of the 2002 China National Nutrition and Health Survey. 2004. (In Chinese). Chinese Ministry of Public Health (CMPH).
- 2003: <http://www.fnri.dost.gov.ph/files/fnri%20files/nns/factsandfigures2003/anthropometric.pdf> (last accessed June 14th 2011)
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- 2005: Chang HC, Yang HC, Chang HY, et al. Morbid obesity in Taiwan: Prevalence, trends, associated social demographics, and lifestyle factors. *PLoS One*. 2017;12(2):e0169577. Published 2017 Feb 2. doi:10.1371/journal.pone.0169577
- 2006: Gerritsen S, Stefanogiannis N, Galloway Y, Devlin M, Templaton R and Yeh L. A portrait of health: key results of the 2006/07 New Zealand Health Survey.
- 2007: National Institute of Population Research and Training (NIPORT), Mitra and Associates, and Macro International. 2008. Bangladesh Demographic and Health Survey 2007: Key Findings. Calverton, Maryland, USA: NIPORT, Mitra and Associates, and Macro International.
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- 2012: STEPS Survey Tonga 2012 available at https://www.who.int/ncds/surveillance/steps/2012_Tonga_STEPSReport.pdf (last accessed 04.05.2020)
- 2013: <http://www.health.govt.nz/publication/annual-update-key-results-2013-14-new-zealand-health-survey>
- 2014: Australian National Health Survey, 2014-15 First Results. Australian Bureau of Statistics. [http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/4364.0.55.001Appendix2014-15?opendocument&tabname=Notes&prodno=4364.0.55.001&issue=2014-15&num=&view=" \(last accessed 27th September 2017\)](http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/4364.0.55.001Appendix2014-15?opendocument&tabname=Notes&prodno=4364.0.55.001&issue=2014-15&num=&view=)
- 2015: Li, Y., Teng, D., Shi, X., Teng, X., Teng, W., Shan, Z., Lai, Y. and China National Diabetes and Metabolic Disorders Study Group, 2015. Glucose tolerance and diabetes in Chinese adults: the China National Diabetes and Metabolic Disorders Study. *Diabetes Care*, 38(1), pp.16-22.

Different methodologies may have been used to collect this data and so data from different surveys may not be strictly comparable. Please check with original data sources for methodologies used.

Overweight/obesity by age

Adults, 2012



Survey type: Measured

Sample size: 2599

Area covered: National

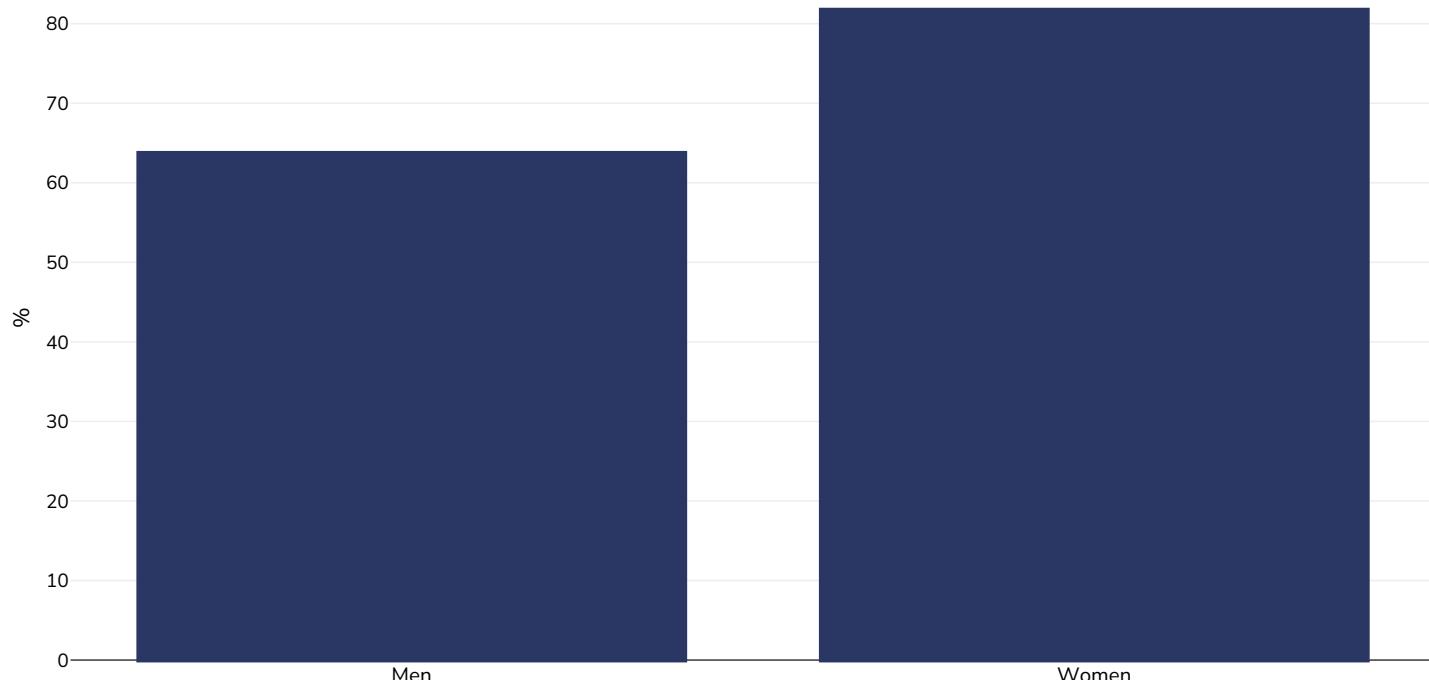
References: STEPS Survey Tonga 2012 available at https://www.who.int/ncds/surveillance/steps/2012_Tonga_STEPSReport.pdf (last accessed 04.05.2020)

Notes: STEPS

Unless otherwise noted, overweight refers to a BMI between 25kg and 29.9kg/m², obesity refers to a BMI greater than 30kg/m².

Double burden of underweight & overweight

Adults, 2022



Survey type:

Measured

Age:

20+

References:

NCD Risk Factor Collaboration (NCD-RisC). Worldwide trends in underweight and obesity from 1990 to 2022: a pooled analysis of 3663 population representative studies with 222 million children, adolescents, and adults. Lancet 2024; published online Feb 29. [https://doi.org/10.1016/S0140-6736\(23\)02750-2](https://doi.org/10.1016/S0140-6736(23)02750-2).

Notes:

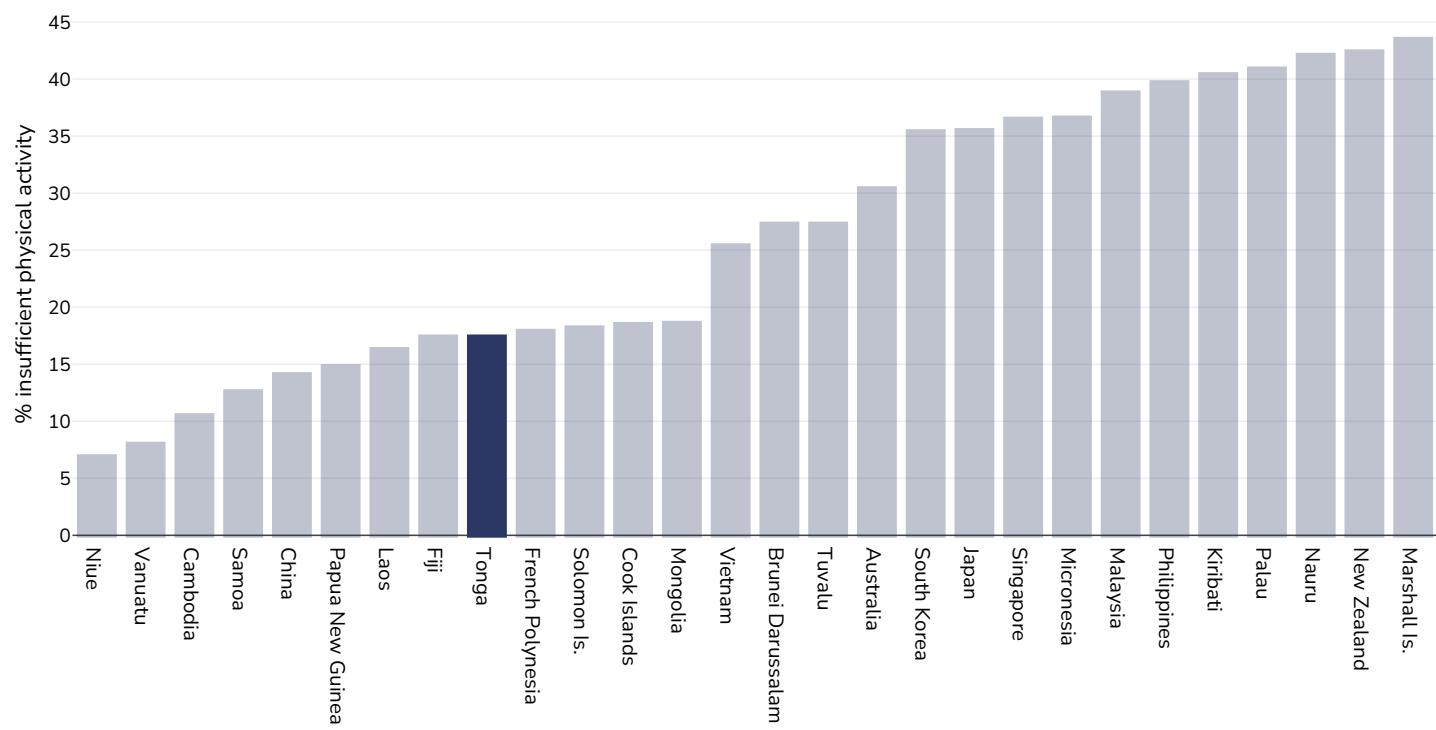
Age Standardised estimates

Definitions:

Combined prevalence of $\text{BMI} < 18.5 \text{ kg/m}^2$ and $\text{BMI} \geq 30 \text{ kg/m}^2$ (double burden of underweight and obesity)

Insufficient physical activity

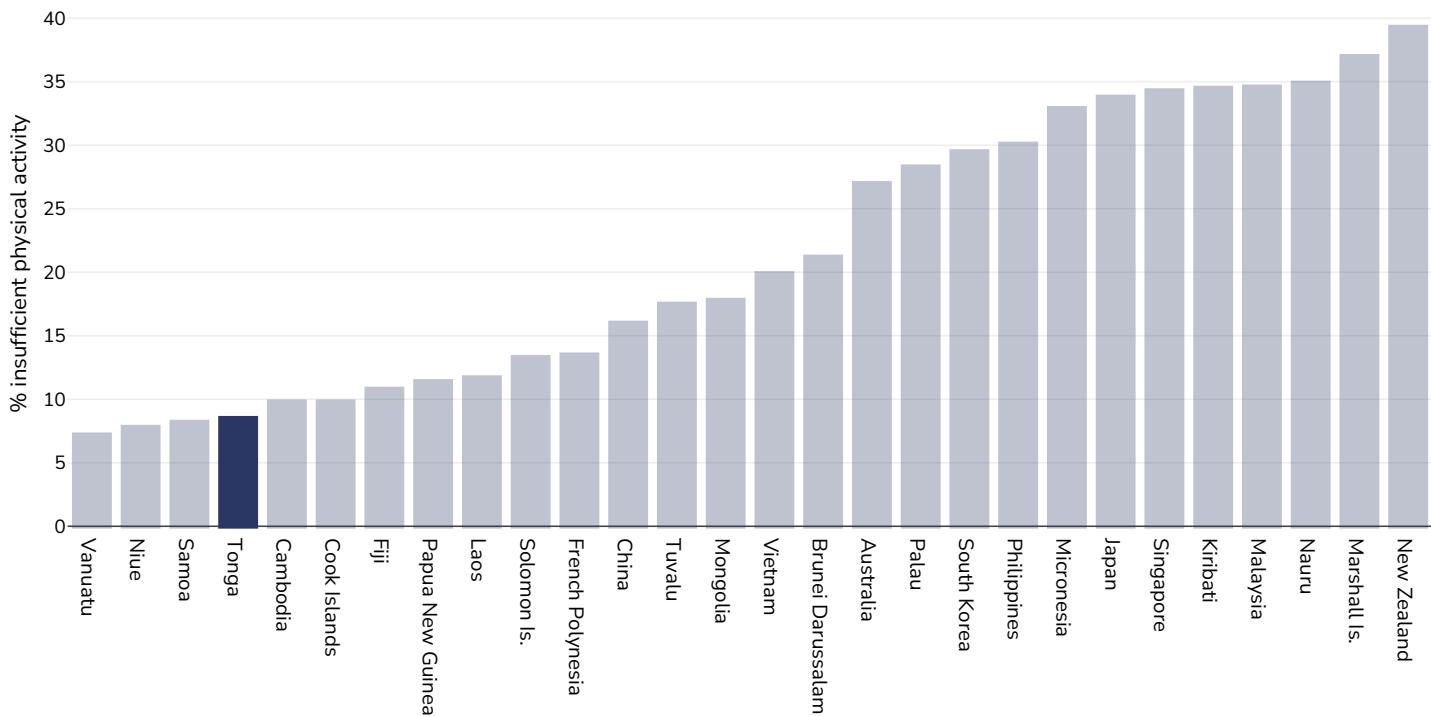
Adults, 2016



References:

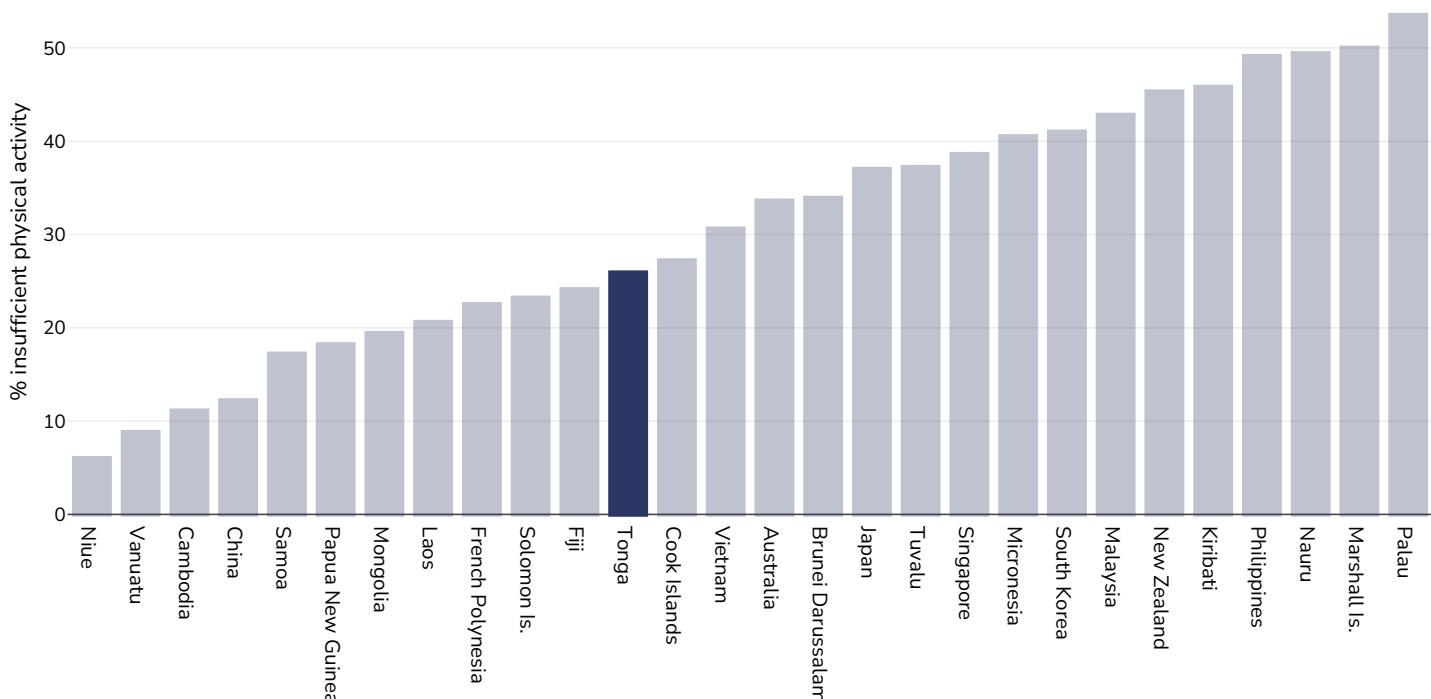
Guthold R, Stevens GA, Riley LM, Bull FC. Worldwide trends in insufficient physical activity from 2001 to 2016: a pooled analysis of 358 population-based surveys with 1.9 million participants. Lancet 2018 [http://dx.doi.org/10.1016/S2214-109X\(18\)30357-7](http://dx.doi.org/10.1016/S2214-109X(18)30357-7)

Men, 2016



References: Guthold R, Stevens GA, Riley LM, Bull FC. Worldwide trends in insufficient physical activity from 2001 to 2016: a pooled analysis of 358 population-based surveys with 1.9 million participants. Lancet 2018 [http://dx.doi.org/10.1016/S2214-109X\(18\)30357-7](http://dx.doi.org/10.1016/S2214-109X(18)30357-7)

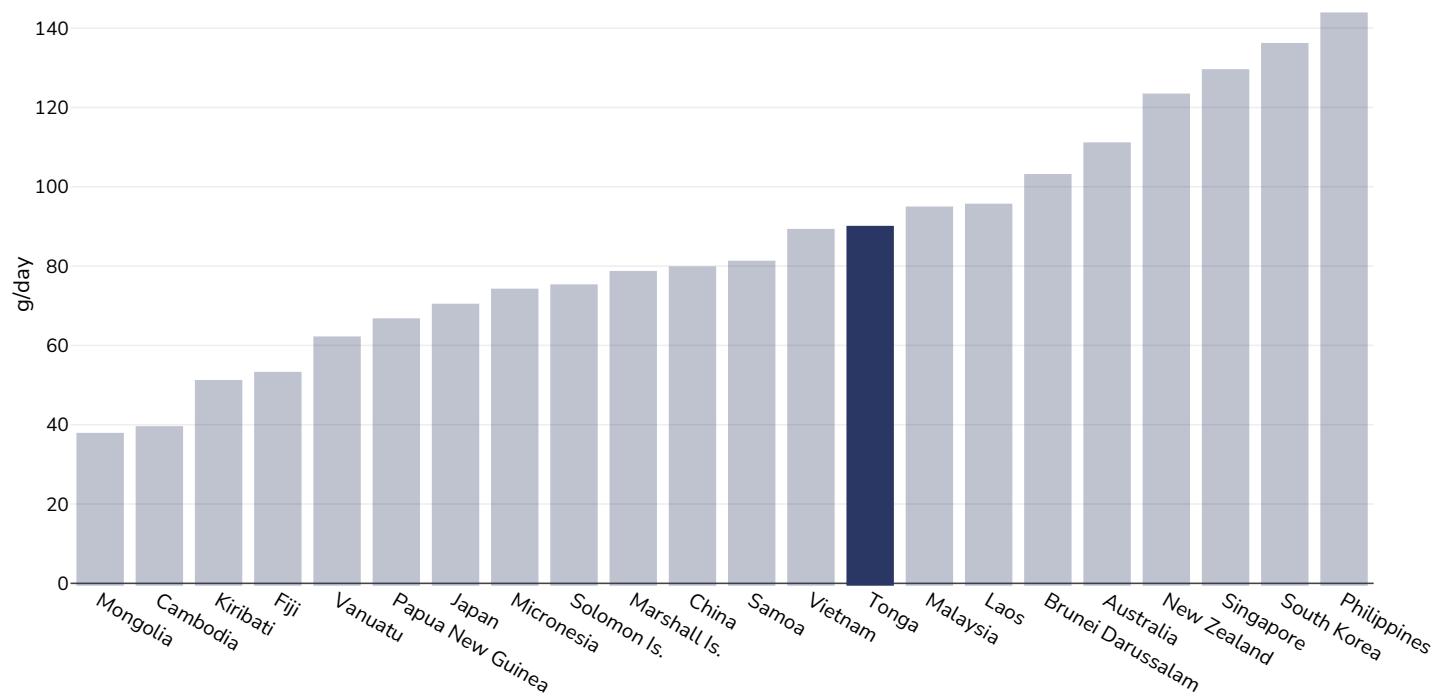
Women, 2016



References: Guthold R, Stevens GA, Riley LM, Bull FC. Worldwide trends in insufficient physical activity from 2001 to 2016: a pooled analysis of 358 population-based surveys with 1.9 million participants. Lancet 2018 [http://dx.doi.org/10.1016/S2214-109X\(18\)30357-7](http://dx.doi.org/10.1016/S2214-109X(18)30357-7)

Estimated per capita fruit intake

Adults, 2017



Survey type:

Measured

Age:

25+

References:

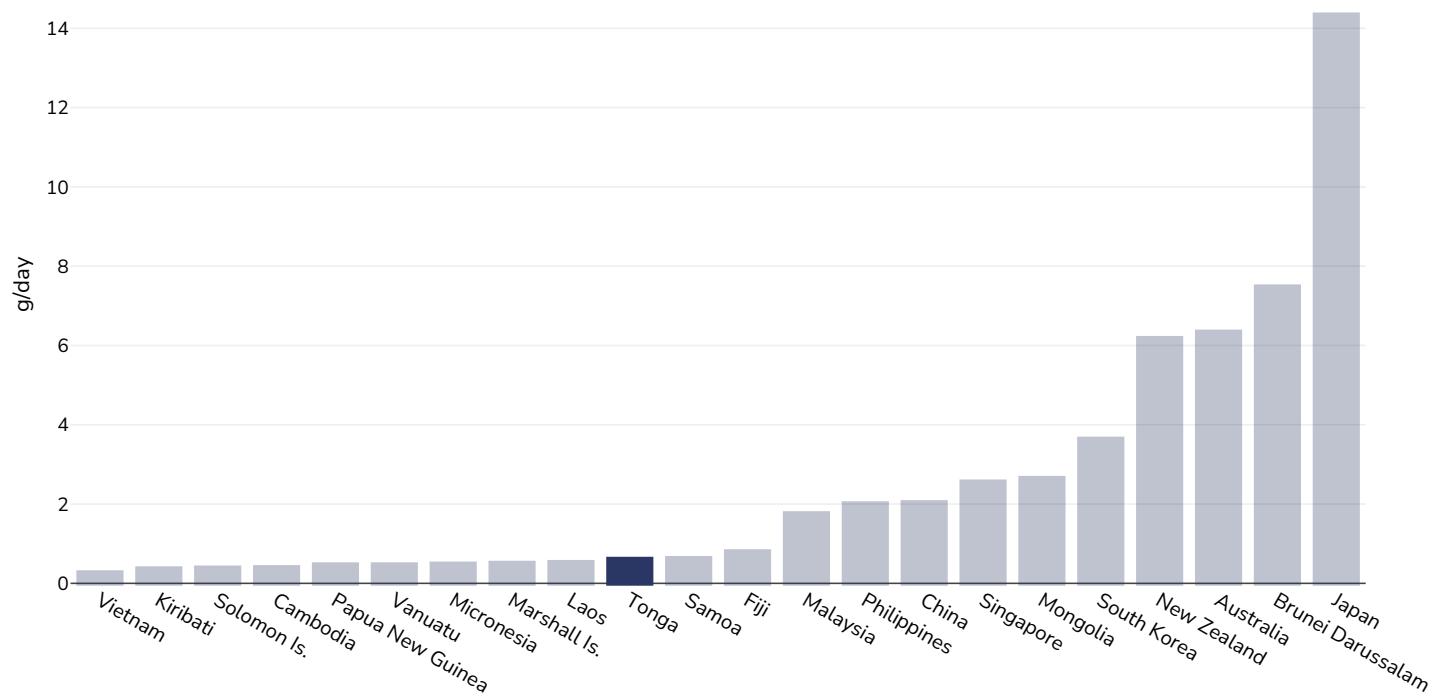
Global Burden of Disease, the Institute for Health Metrics and Evaluation <http://ghdx.healthdata.org/>

Definitions:

Estimated per-capita fruit intake (g/day)

Estimated per-capita processed meat intake

Adults, 2017



Survey type:

Measured

Age:

25+

References:

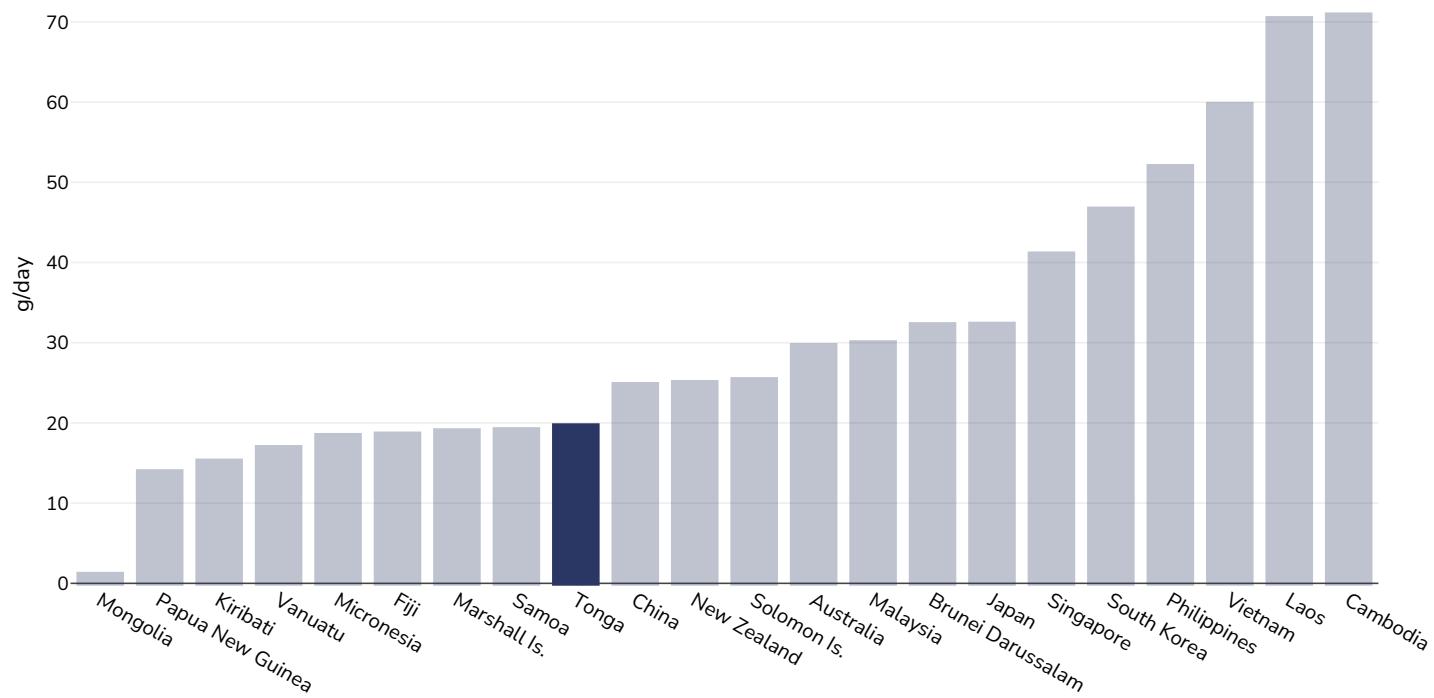
Global Burden of Disease, the Institute for Health Metrics and Evaluation <http://ghdx.healthdata.org/>

Definitions:

Estimated per-capita processed meat intake (g per day)

Estimated per capita whole grains intake

Adults, 2017



Survey type:

Measured

Age:

25+

References:

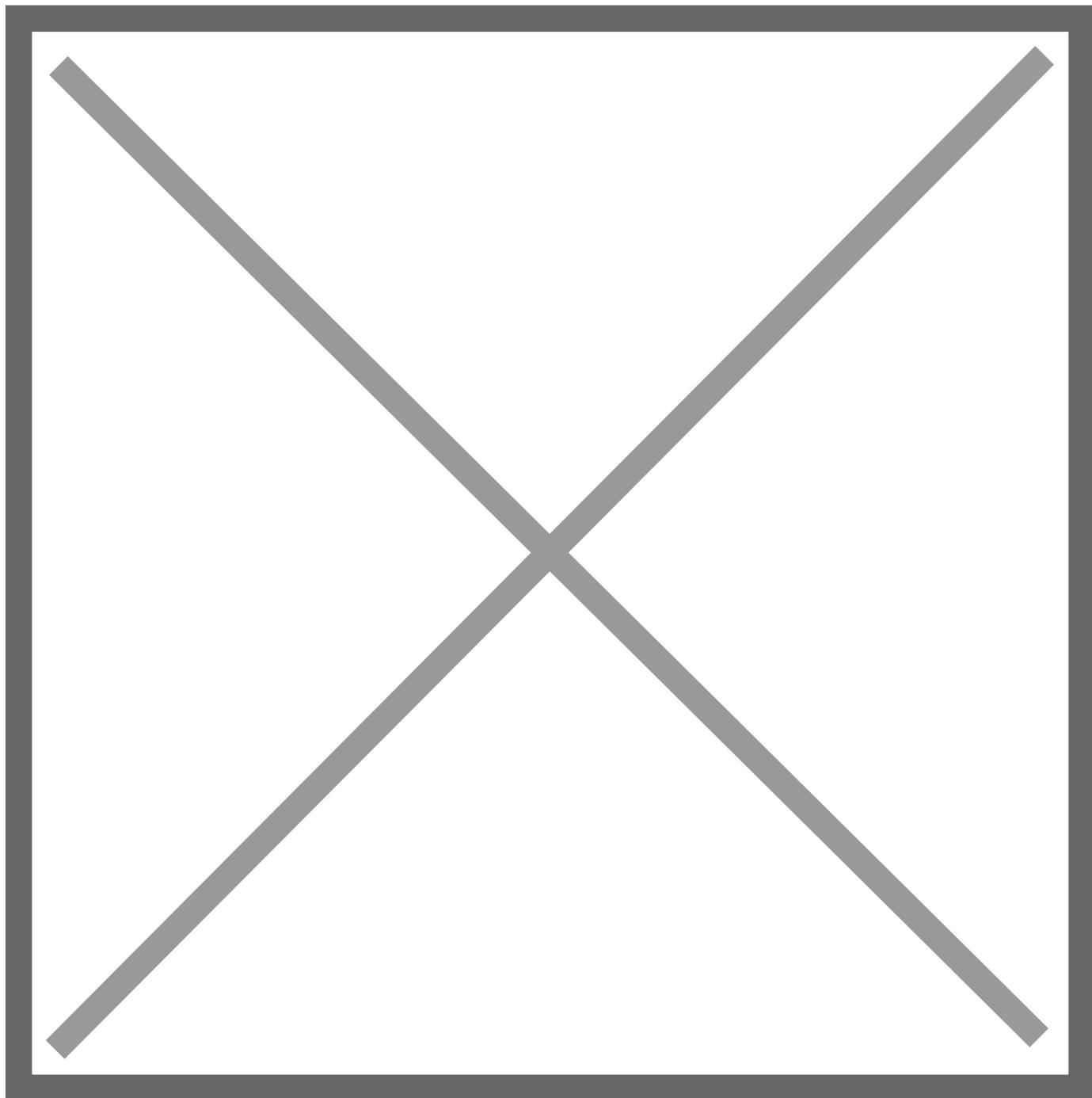
Global Burden of Disease, the Institute for Health Metrics and Evaluation <http://ghdx.healthdata.org/>

Definitions:

Estimated per-capita whole grains intake (g/day)

Mental health - depression disorders

Adults, 2021



Age:

20+

Area covered:

National

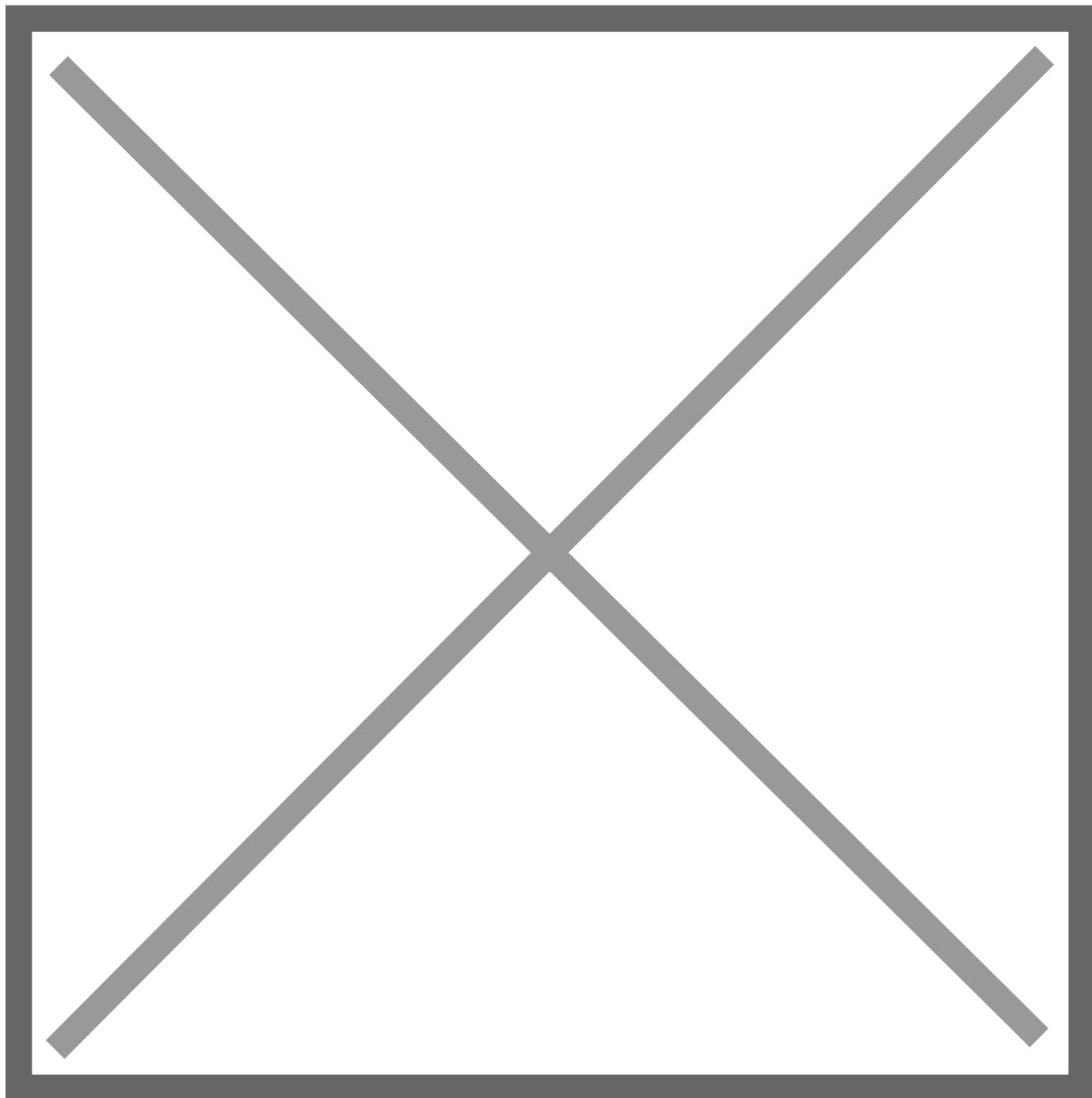
References:

Institute for Health Metrics and Evaluation (IHME). GBD Compare Data Visualization. Global Burden of Disease (GBD) Study 2021. Seattle, WA: IHME, University of Washington, 2023. Available from <http://vizhub.healthdata.org/gbd-compare>. (Last accessed 23.04.25)

Definitions:

Number living with depression per 100,000 population (adults 20+ years)

Men, 2021



Age:

20+

Area covered:

National

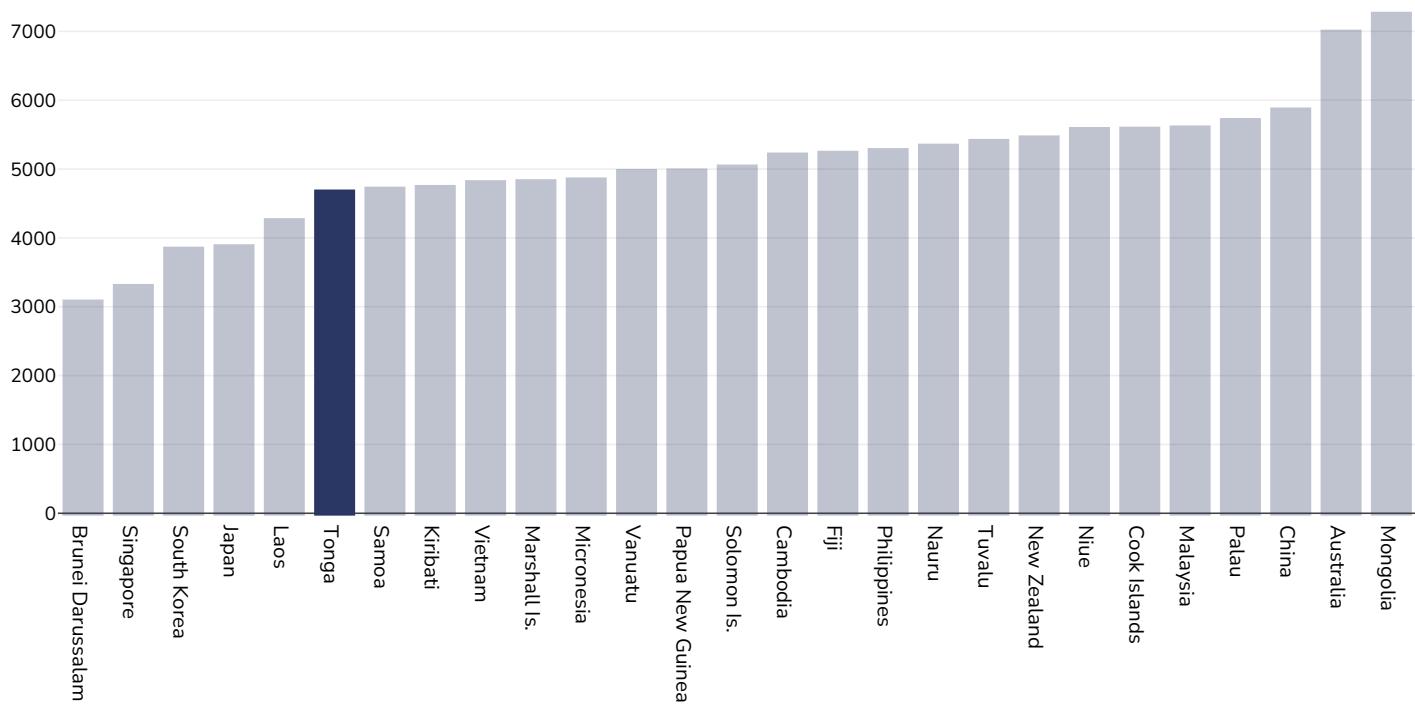
References:

Institute for Health Metrics and Evaluation (IHME). GBD Compare Data Visualization. Global Burden of Disease (GBD) Study 2021. Seattle, WA: IHME, University of Washington, 2023. Available from <http://vizhub.healthdata.org/gbd-compare>. (Last accessed 23.04.25)

Definitions:

Number living with depression per 100,000 population (adults 20+ years)

Women, 2021



Age:

20+

Area covered:

National

References:

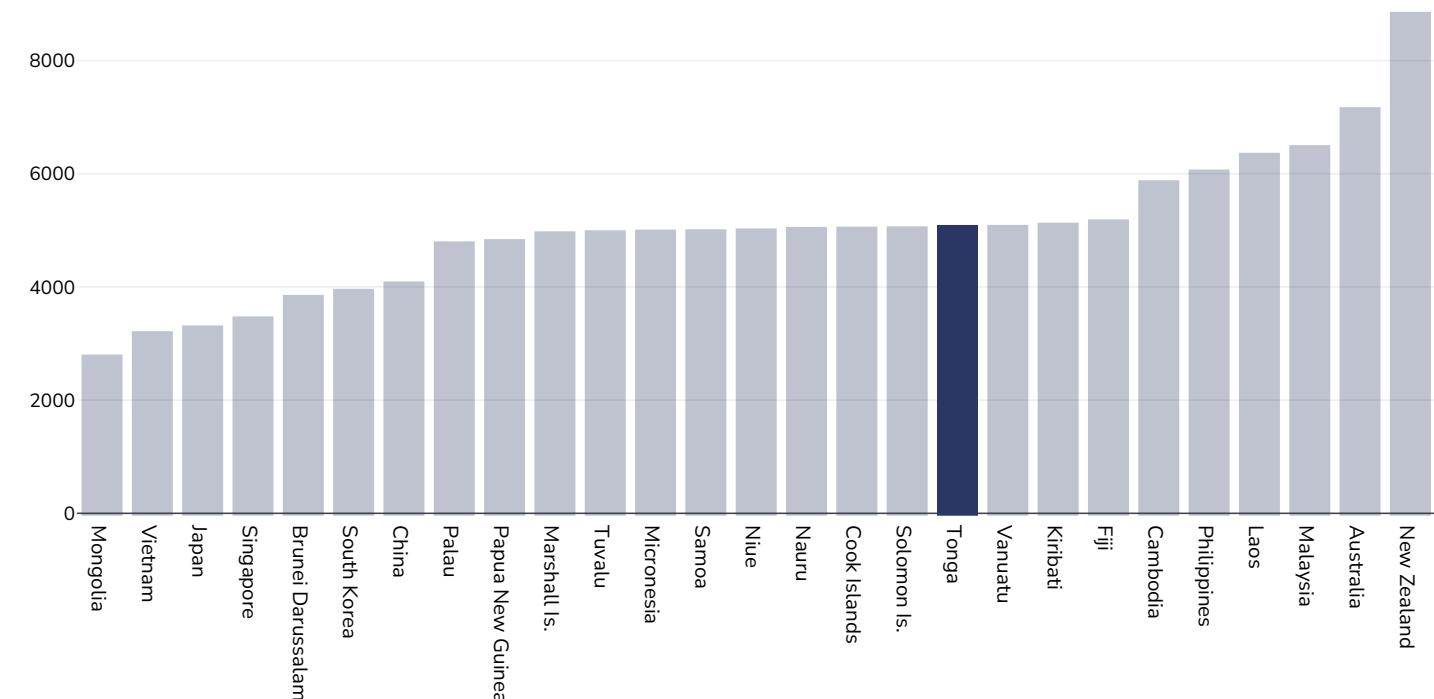
Institute for Health Metrics and Evaluation (IHME). GBD Compare Data Visualization. Global Burden of Disease (GBD) Study 2021. Seattle, WA: IHME, University of Washington, 2023. Available from <http://vizhub.healthdata.org/gbd-compare>. (Last accessed 23.04.25)

Definitions:

Number living with depression per 100,000 population (adults 20+ years)

Mental health - anxiety disorders

Adults, 2021



Age:

20+

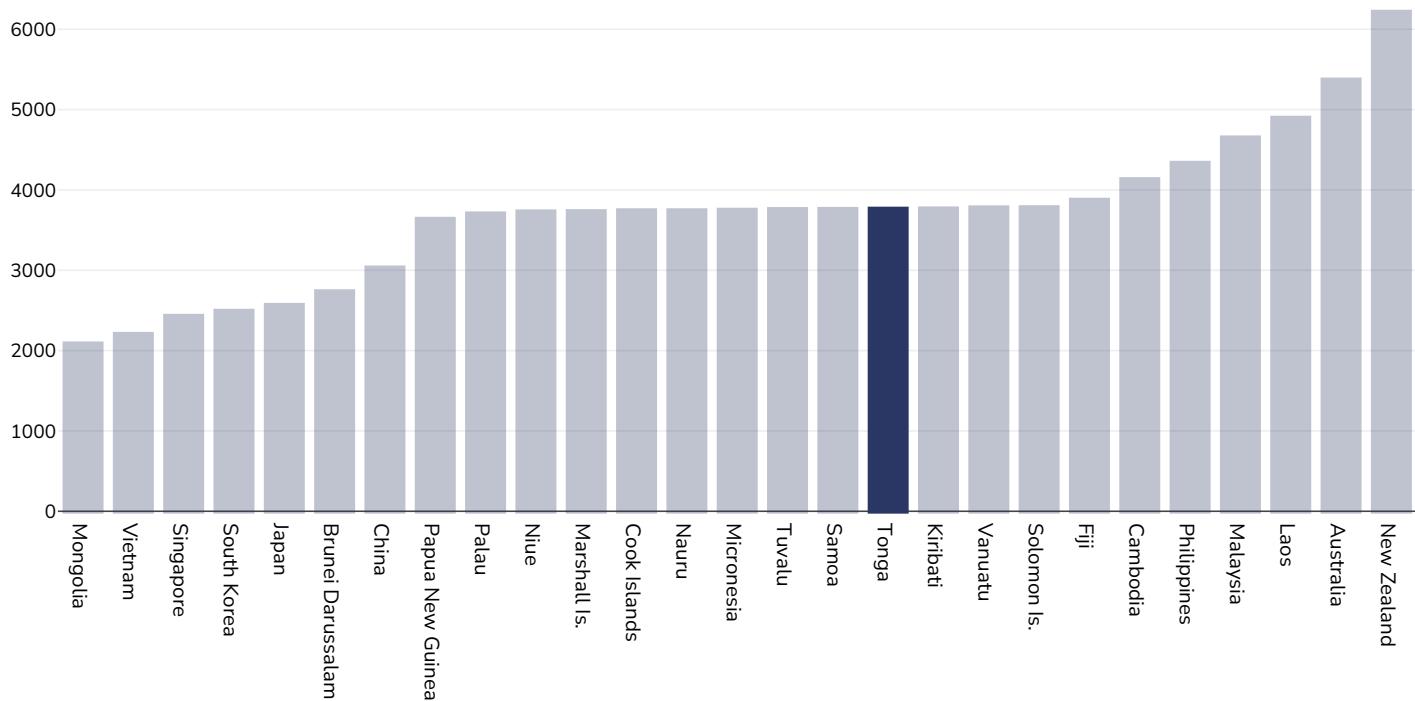
References:

Institute for Health Metrics and Evaluation (IHME). GBD Compare Data Visualization. Global Burden of Disease (GBD) Study 2021. Seattle, WA: IHME, University of Washington, 2023. Available from <http://vizhub.healthdata.org/gbd-compare>. (Last accessed 23.04.25).

Definitions:

Number living with anxiety per 100,000 population

Men, 2021



Age:

20+

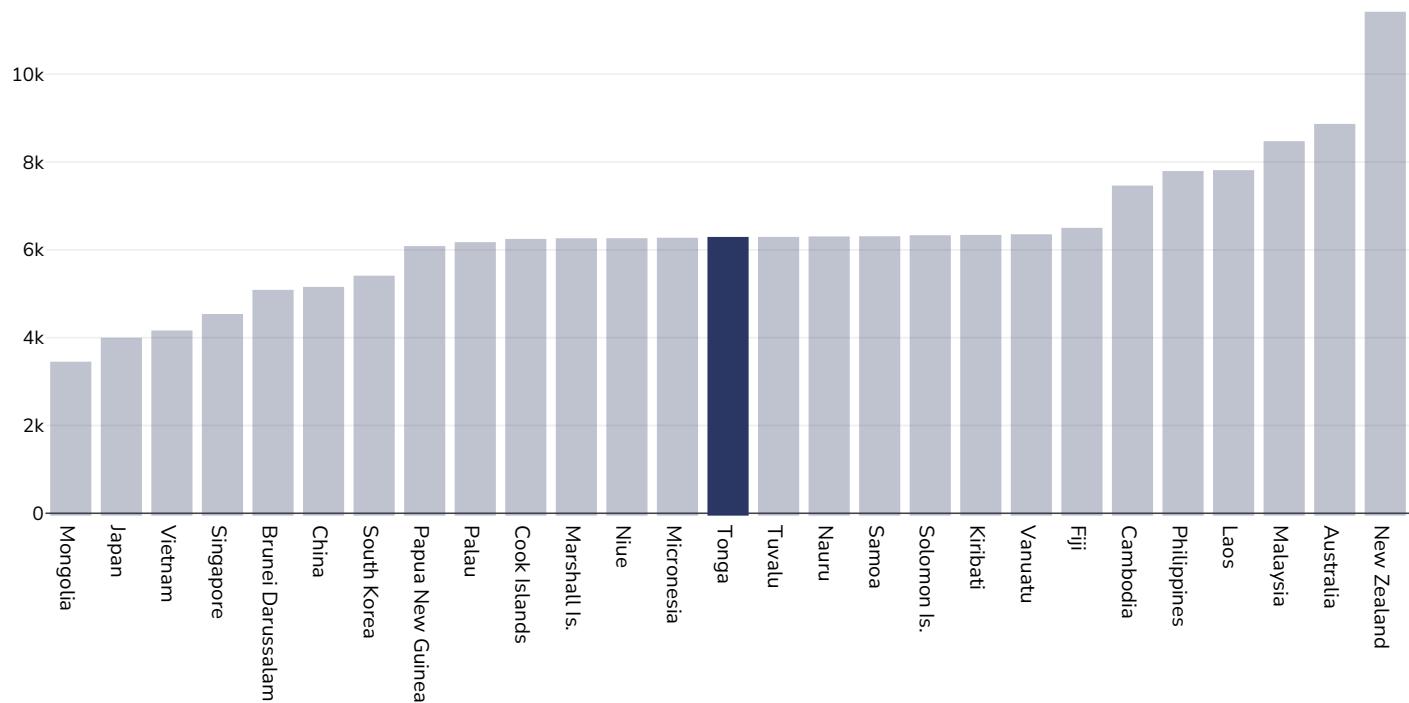
References:

Institute for Health Metrics and Evaluation (IHME). GBD Compare Data Visualization. Global Burden of Disease (GBD) Study 2021. Seattle, WA: IHME, University of Washington, 2023. Available from <http://vizhub.healthdata.org/gbd-compare>. (Last accessed 23.04.25).

Definitions:

Number living with anxiety per 100,000 population

Women, 2021



Age:

20+

References:

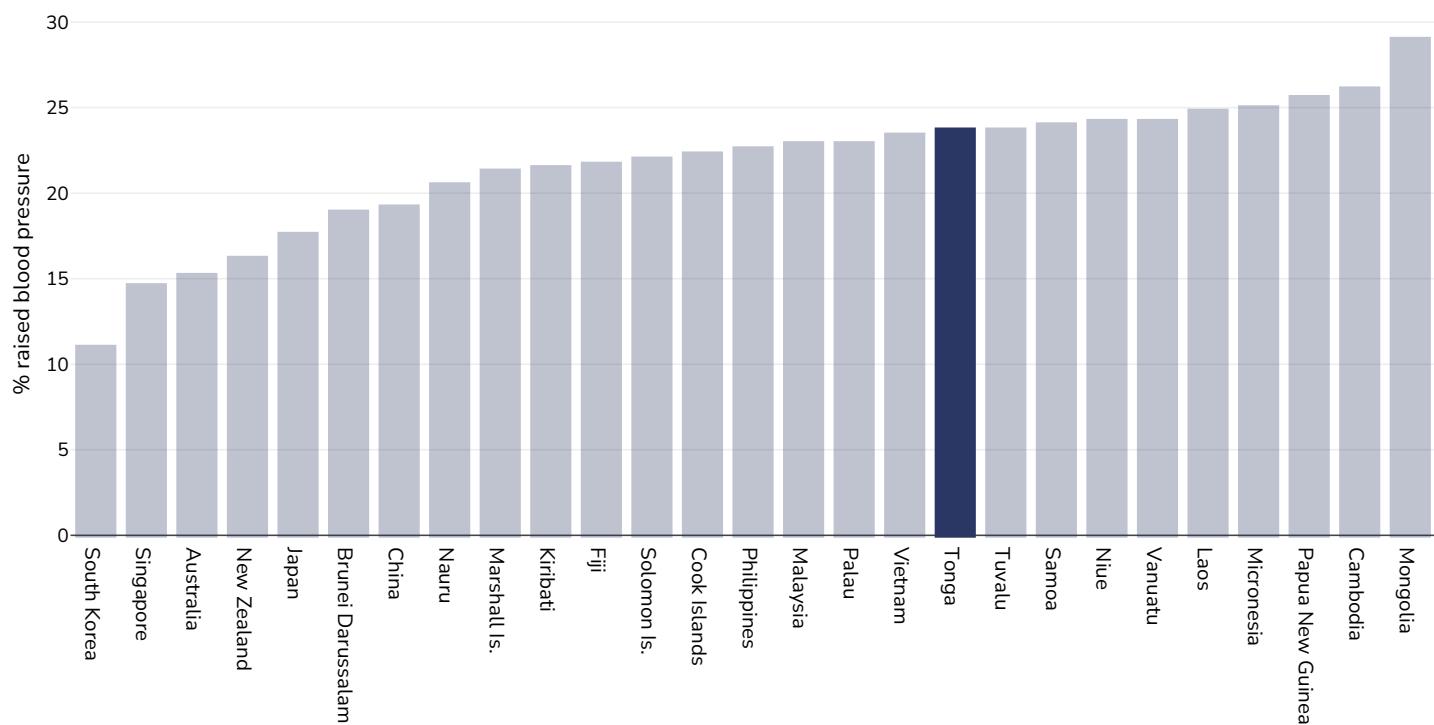
Institute for Health Metrics and Evaluation (IHME). GBD Compare Data Visualization. Global Burden of Disease (GBD) Study 2021. Seattle, WA: IHME, University of Washington, 2023. Available from <http://vizhub.healthdata.org/gbd-compare>. (Last accessed 23.04.25).

Definitions:

Number living with anxiety per 100,000 population

Raised blood pressure

Adults, 2015



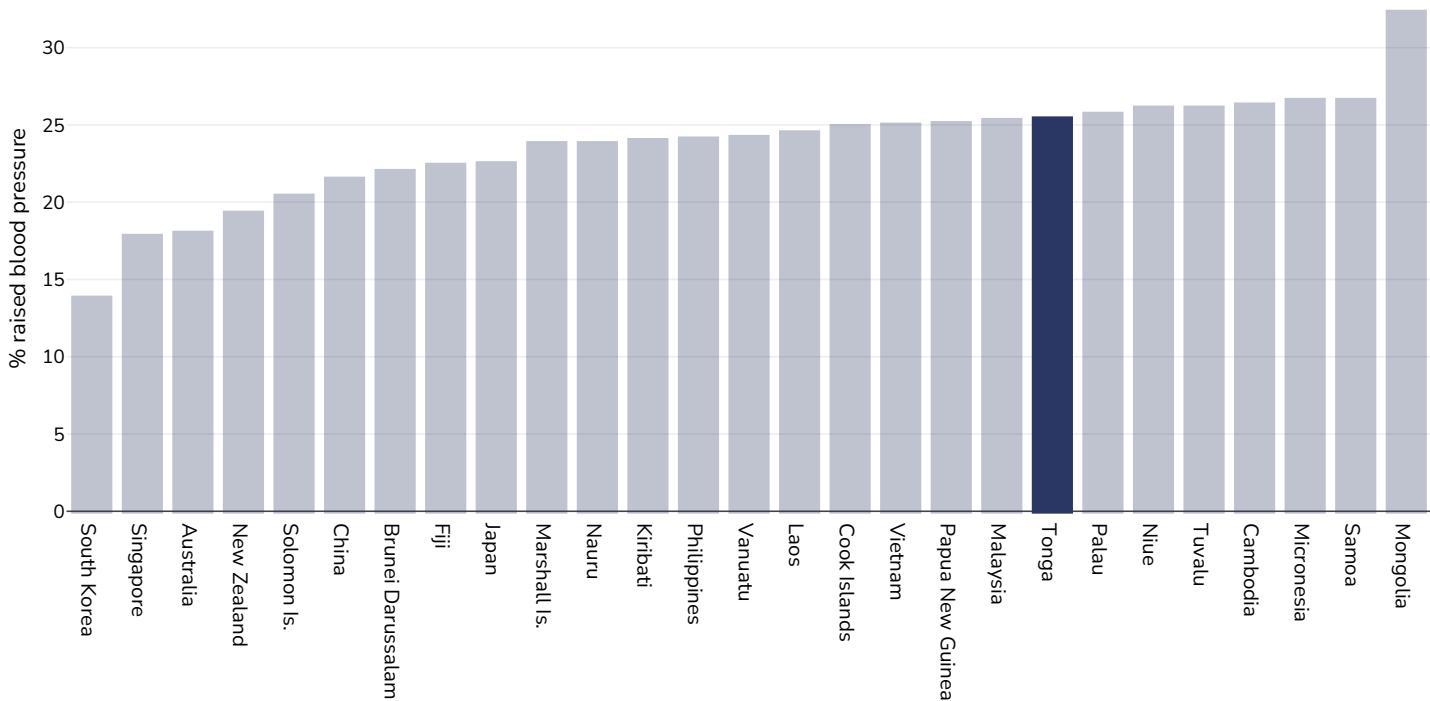
References:

Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A875?lang=en>

Definitions:

Age Standardised estimated % Raised blood pressure 2015 (SBP>=140 OR DBP>=90).

Men, 2015



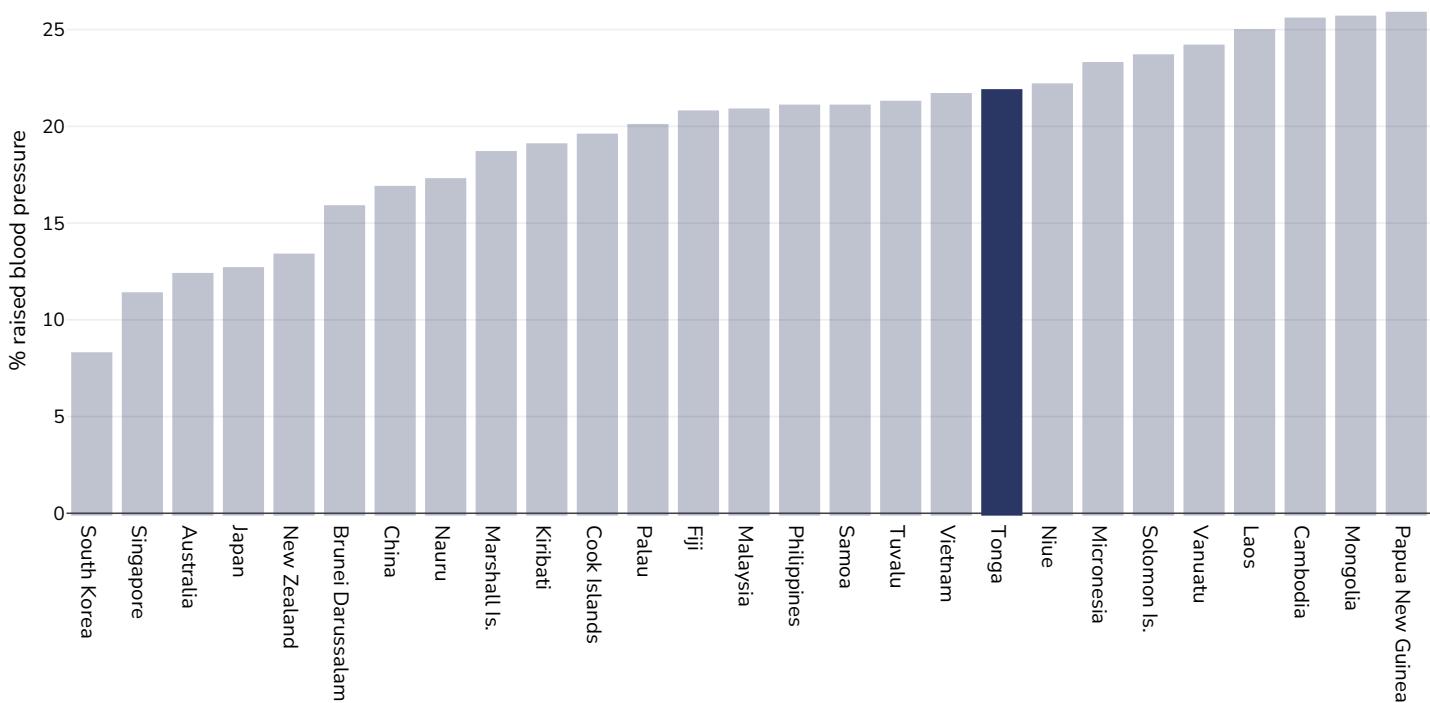
References:

Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A875?lang=en>

Definitions:

Age Standardised estimated % Raised blood pressure 2015 (SBP>=140 OR DBP>=90).

Women, 2015



References:

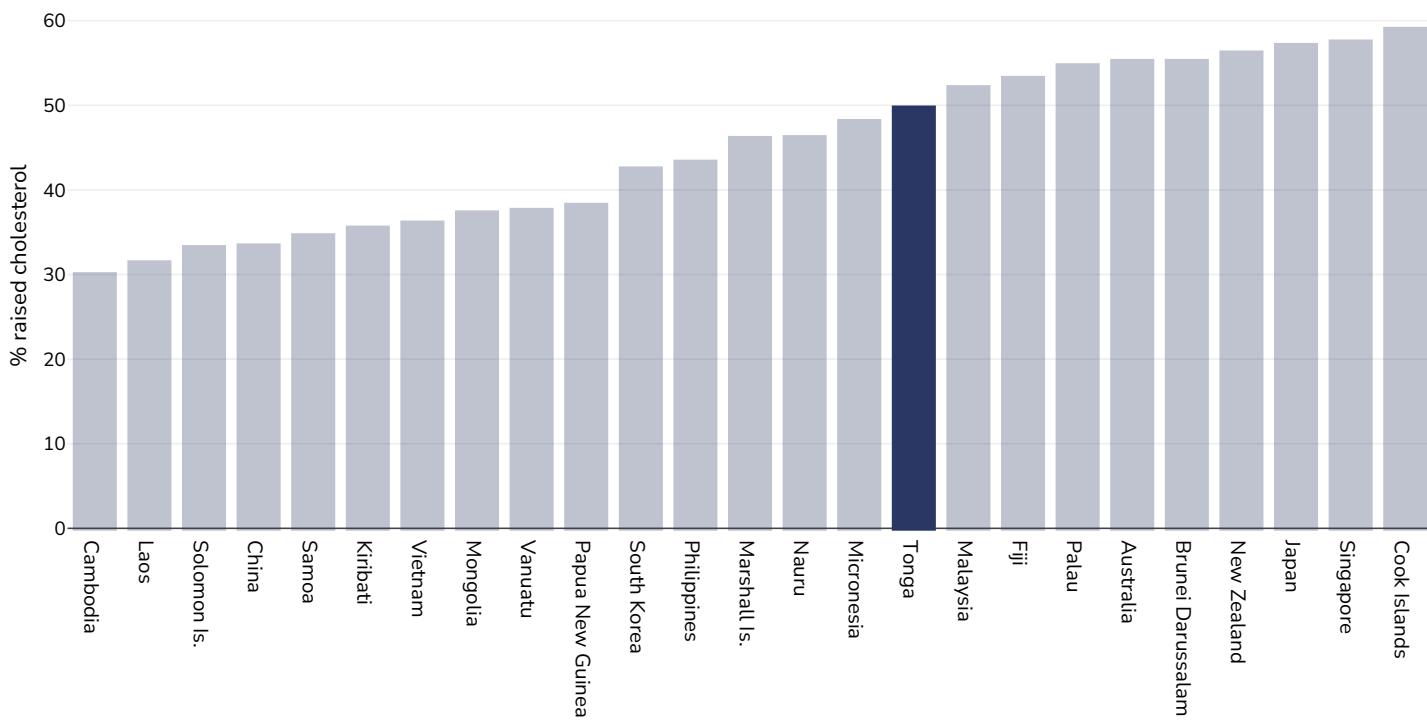
Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A875?lang=en>

Definitions:

Age Standardised estimated % Raised blood pressure 2015 (SBP>=140 OR DBP>=90).

Raised cholesterol

Adults, 2008



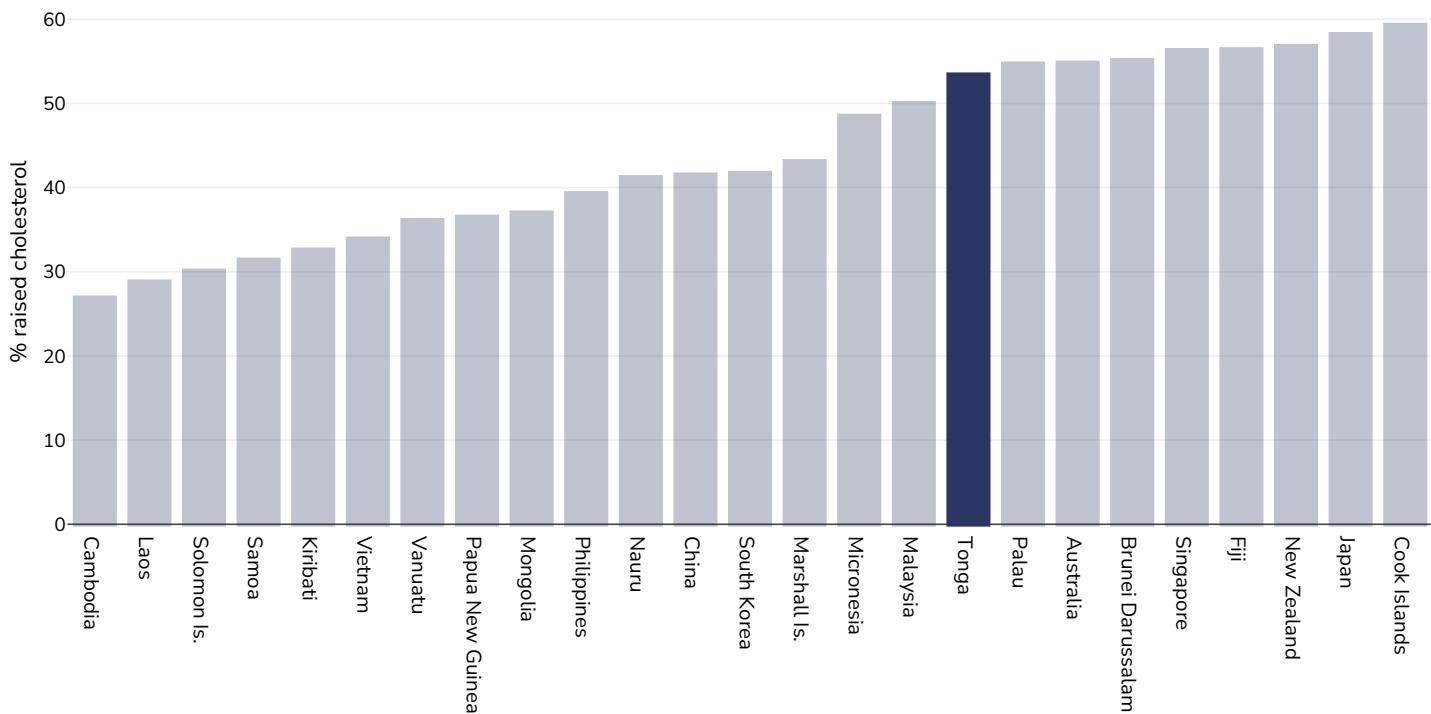
References:

Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A885>

Definitions:

% Raised total cholesterol (≥ 5.0 mmol/L) (age-standardized estimate).

Men, 2008



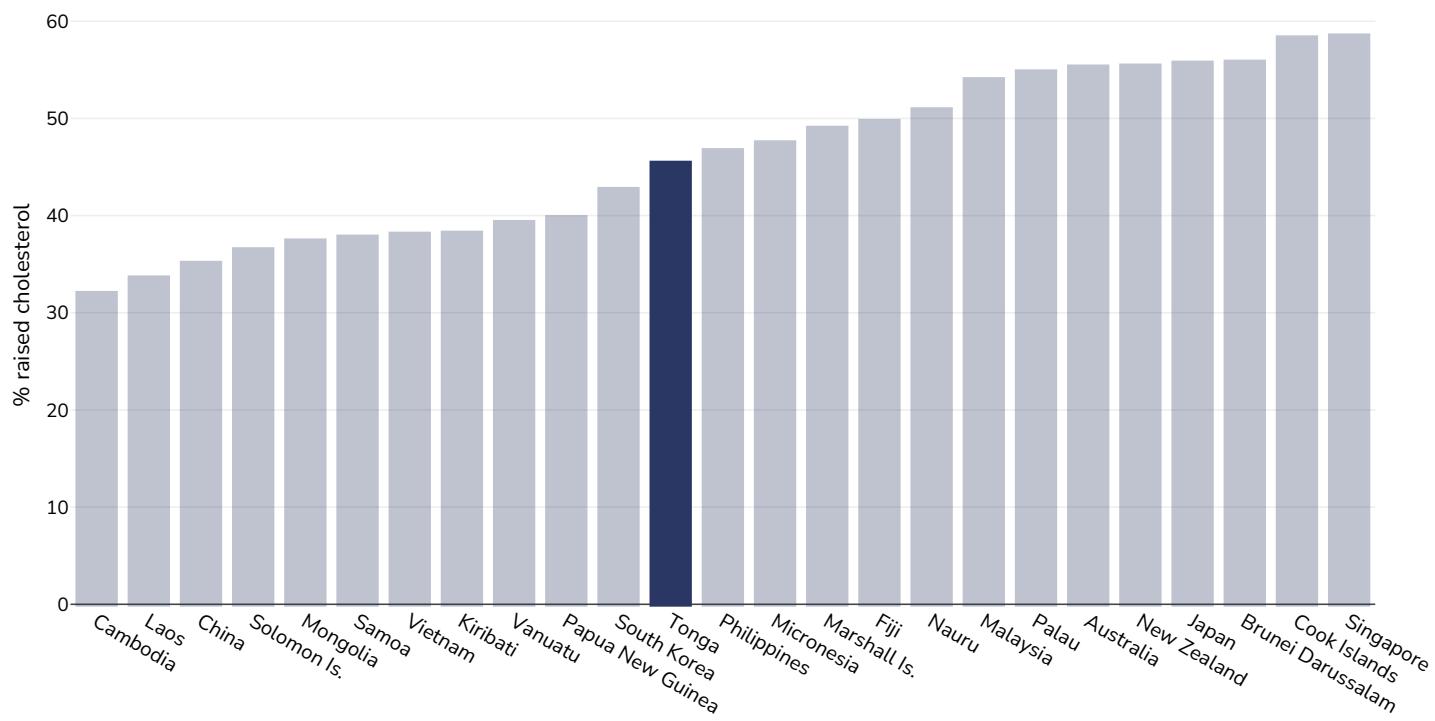
References:

Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A885>

Definitions:

% Raised total cholesterol (≥ 5.0 mmol/L) (age-standardized estimate).

Women, 2008



References:

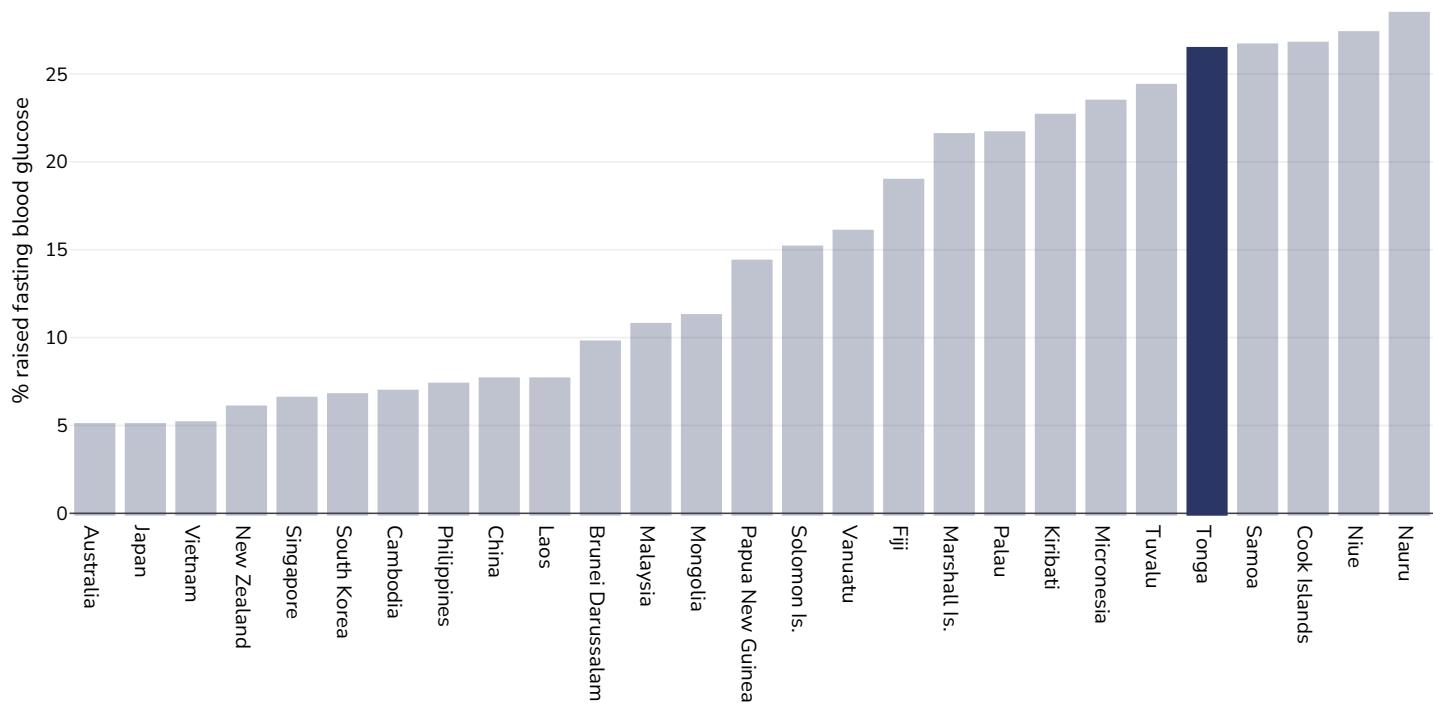
Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A885>

Definitions:

% Raised total cholesterol (≥ 5.0 mmol/L) (age-standardized estimate).

Raised fasting blood glucose

Men, 2014



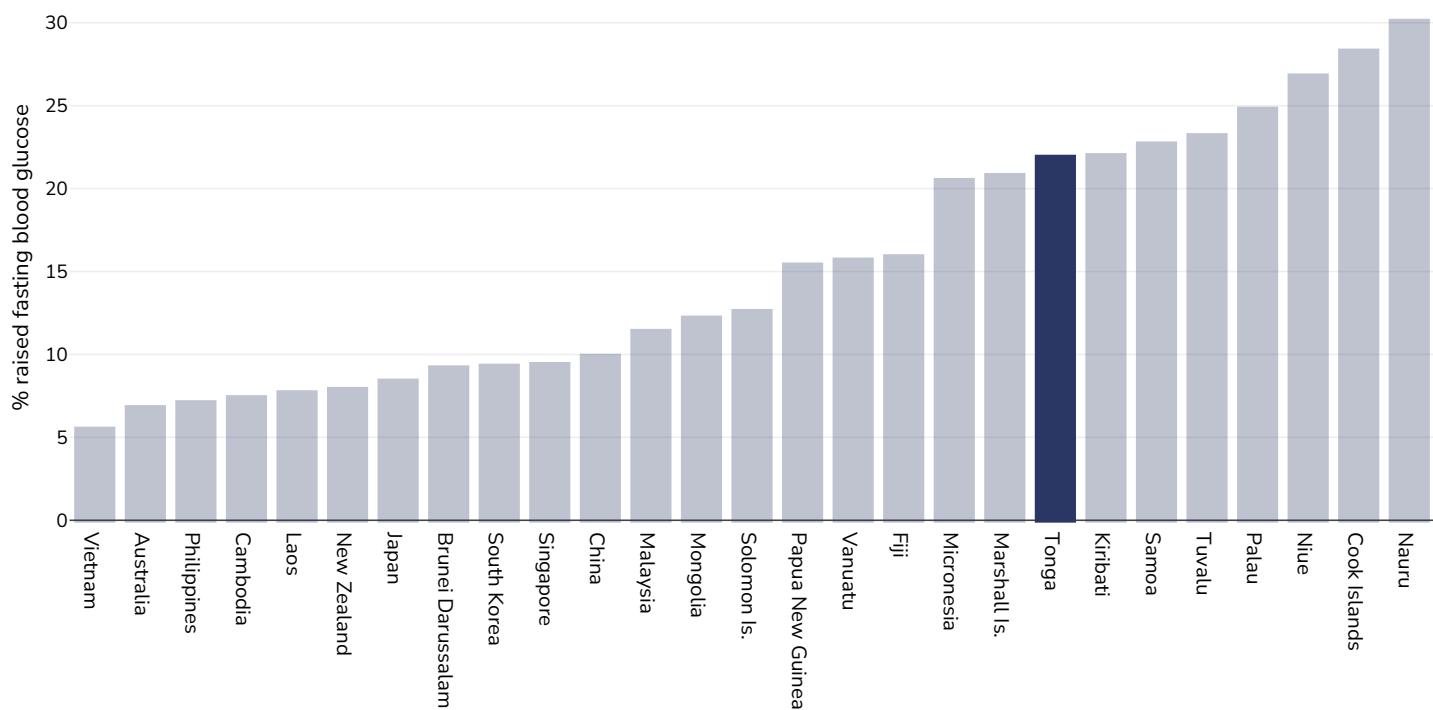
References:

Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A869?lang=en>

Definitions:

Age Standardised % raised fasting blood glucose (≥ 7.0 mmol/L or on medication).

Women, 2014



References:

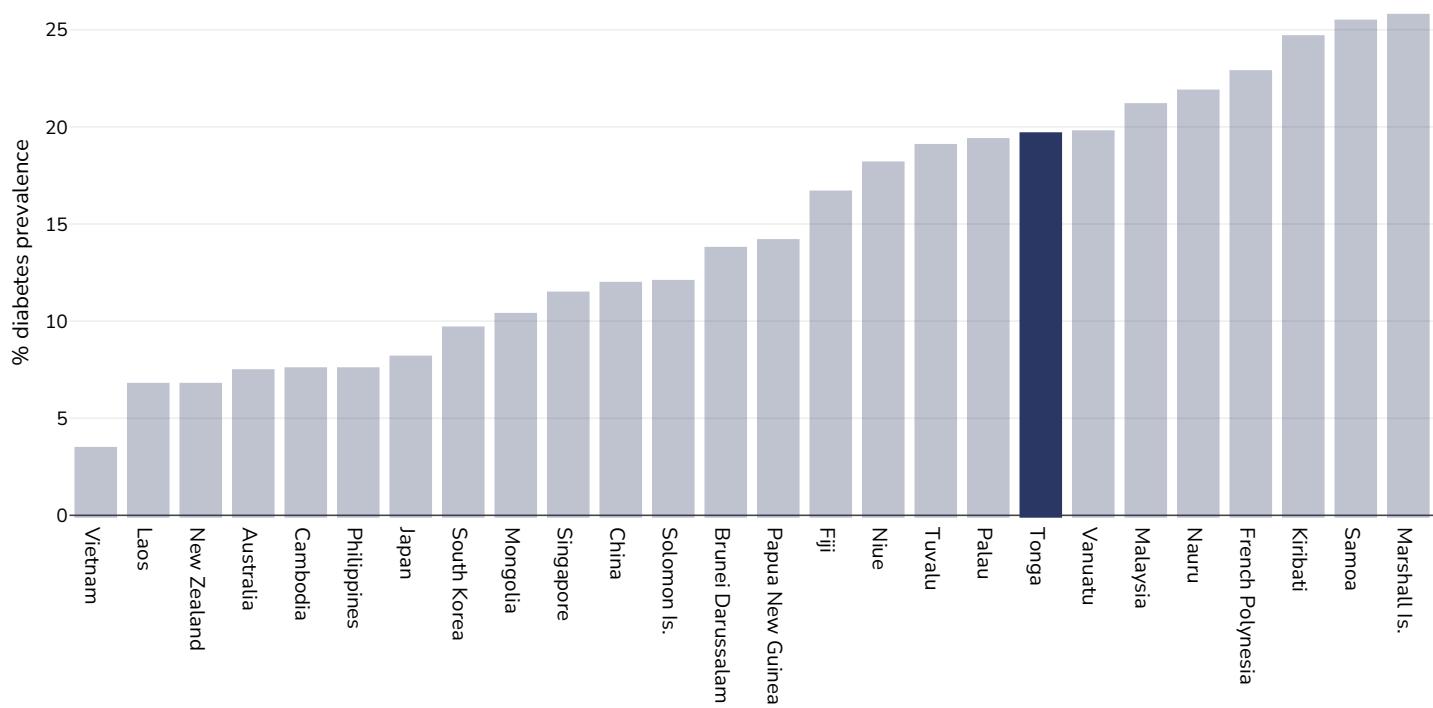
Global Health Observatory data repository, World Health Organisation, <http://apps.who.int/gho/data/node.main.A869?lang=en>

Definitions:

Age Standardised % raised fasting blood glucose (≥ 7.0 mmol/L or on medication).

Diabetes prevalence

Adults, 2024



References:

Reproduced with kind permission International Diabetes Federation. IDF Diabetes Atlas, 11th edn. Brussels, Belgium:International Diabetes Federation, 2025. <http://www.diabetesatlas.org>

PDF created on September 17, 2025