

# STEPwise Survey for Non Communicable Diseases Risk Factor 2017

**Ministry of Health**

report\_generated\_on: September 16, 2024

visit\_data\_catalog\_at: <http://catalog.ihsn.org/>

## Identification

### SURVEY ID NUMBER

TON\_2017\_STEPS\_v01\_M

### TITLE

STEPwise Survey for Non Communicable Diseases Risk Factor 2017

### ABBREVIATION OR ACRONYM

STEPS 2017

### COUNTRY

Name	Country code
Tonga	TON

### STUDY TYPE

Other Household Survey [hh/oth]

### SERIES INFORMATION

This is the third STEPS conducted by Tonga.

### ABSTRACT

STEPS is a household-based survey to obtain core data on the established risk factors that determine the major burden of NCDs.

### KIND OF DATA

Sample survey data [ssd]

### UNIT OF ANALYSIS

Individuals

## Version

### VERSION DESCRIPTION

Public-use dataset

## Scope

### NOTES

The following topics were included in the survey: tobacco use, alcohol consumption, diet, physical activity, history of raised blood glucose, history of raised blood pressure, history of raised total cholesterol, history of cardiovascular diseases and lifestyle advice. Additionally, the following measures were taken: blood pressure, height, weight, waist circumference, hip circumference, heart rate, total cholesterol, urinary sodium and urinary creatinine. Finally, the following optional modules were included: health care and access to services.

### TOPICS

Topic	Vocabulary
STEPS	Survey

### KEYWORDS

Keyword
noncommunicable diseases
risk factors

health surveys
tobacco use
alcohol use
diet
nutrition
salt
physical activity
blood pressure
overweight
obesity
diabetes
hypertension
cardiovascular disease
cholesterol

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

### UNIVERSE

Adults aged 18-69 years.

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name
Ministry of Health

## Sampling

### SAMPLING PROCEDURE

Multi-stage clustering sample design was used to produce representative data for the targeted age range.

### RESPONSE RATE

The overall response rate was 85.7%.

### WEIGHTING

Analysis weights were calculated by taking the inverse of the probability of selection of each participant. These weights were adjusted for differences in the age-sex composition of the sample population as compared to the target population.

Different weight variables are available per Step:

wStep1 - for interview data

wStep2 - for physical measures

wStep3 - for biochemical measures

This allows for differences in the weight calculation for each Step of the survey as the age-sex composition of the respondents to each Step can differ slightly due to refusal or drop out.

## Data collection

### DATES OF DATA COLLECTION

Start	End
2017-03	2017-05

### DATA COLLECTION MODE

Face-to-face [f2f]

### DATA COLLECTION NOTES

Cardiochek PA devices were used for the blood measures in Step 3.

## Access policy

### CONTACTS

Name	Affiliation	Email	URL
NCD Surveillance Team	World Health Organization	ncdmonitoring@who.int	<a href="#">Link</a>

### ACCESS CONDITIONS

The user undertakes:

- (1) to acknowledge the data source.
- (2) to share any planned publications with WHO prior to publication.
- (3) to offer co-authorship of any reports or publications using the survey results to the coordinator of the survey.
- (4) to use the data for non-commercial, not-for-profit public health purposes only.

### CITATION REQUIREMENTS

Publications based on STEPS data should cite the survey report (if available) and acknowledge the data source in the following manner:

"This paper uses data from the [country] [year] STEPS survey, implemented by [implementing agency] with the support of the World Health Organization."

### ACCESS AUTHORITY

Name	Affiliation	Email	URL
NCD Surveillance Team	World Health Organization	ncdmonitoring@who.int	<a href="#">Link</a>

## Disclaimer and copyrights

### DISCLAIMER

The data is being distributed without warranty of any kind. The responsibility for the use of the data lies with the user. In no event shall the World Health Organization be liable for damages arising from its use.

## Metadata production

### DDI DOCUMENT ID

DDI\_TON\_2017\_STEPS\_v01\_M

### PRODUCERS

Name	Abbreviation	Affiliation	Role
Yue Wu		World Health Organization	Documentation of data

Melanie Cowan		World Health Organization	Supervision and review of metadata and documentation of study
Development Economics Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

## DATE OF METADATA PRODUCTION

2020-03-22

## DDI DOCUMENT VERSION

Identical to a metadata (TON\_2017\_STEPS\_v01) published on WHO NCD microdata repository (<http://extranet.who.int/ncdsmicrodata/index.php/catalog>). Some of the metadata fields have been edited.

**data\_dictionary**

Data file	Cases	variables
<b>tonga2017</b> National public-use dataset	3858	256



**Data file: tonga2017**

National public-use dataset

Cases: 3858

variables: 256

**variables**

ID	Name	Label	Question
V527	pid	participant ID - unique record ID	
V528	sex	sex	
V529	age	age for analysis	
V530	c4	yrs of education	
V531	c5	highest level of education	
V532	c6	ethnic group	
V533	c7	marital status	
V534	c	religious affiliation	
V535	c8	work status	
V536	c9	adults older than 18yrs in household	
V537	c11	average earnings in a month	
V538	t1	current smoking	
V539	t2	current daily smoking	
V540	t3	age started smoking	
V541	t4a	time since started smoking (years)	
V542	t4b	time since started smoking (months)	
V543	t4c	time since started smoking (weeks)	
V544	t5x1	smoke manufactured cigarettes	
V545	t5x2	smoke hand-rolled cigarettes	
V546	t5x3	smoke pipes	
V547	t5x4	smoke cigars	
V548	t5x5	smoke local tobacco	
V549	t5x6	smoke other	
V550	tx1	how often smoke manufactured cigarettes	
V551	t5a	manufactured cigs smoked per day	
V552	t5aw	manufactured cigs smoked per week	
V553	tx2	how often smoke handroll cigarettes	
V554	t5b	hand-rolled cigs smoked per day	
V555	t5bw	hand-rolled cigs smoked per week	
V556	tx3	how often smoke pipe	
V557	t5c	pipes smoked per day	
V558	t5cw	pipes smoked per week	
V559	tx4	how often smoke cigars	
V560	t5d	cigars smoked per day	
V561	t5dw	cigars smoked per week	
V562	tx5	how often smoke local tobacco	
V563	t5e	shisha sessions per day	



ID	Name	Label	Question
V564	t5ew	shisha sessions per week	
V565	t5f	other smoked per day	
V566	t5fw	other smoked per week	
V567	t6	stop smoking attempt in past 12 mos	
V568	t7	advised by MD to stop smoking	
V569	t8	past smoking	
V570	t9	past daily smoking	
V571	t10	age quit smoking	
V572	t17	exposed to smoke in home	
V573	t18	exposed to smoke at work	
V574	a1	ever drank alcohol	
V575	a2	drank alcohol in past 12 mos	
V576	a3	stopped drinking due to health reasons	
V577	a4	freq drinking in past 12 mos	
V578	a5	drank alcohol in past 30 days	
V579	a6	number drinking occasions past 30 days	
V580	a7x1	drink beer 3.5% past 30 days	
V581	a7x2	drink beer 5% past 30 days	
V582	a7x3	drink wine past 30 days	
V583	a7x4	drink spirits past 30 days	
V584	a7a	average number drinks of beer 3.5% per occasion past 30 days	
V585	a7b	average number drinks of beer 5% per occasion past 30 days	
V586	a7c	average number drinks of wine per occasion past 30 days	
V587	a7d	average number drinks of spirits per occasion past 30 days	
V588	a8	largest number drinks past 30 days	
V589	a8a	largest number drinks of beer 3.5% past 30 days	
V590	a8b	largest number drinks of beer 5% past 30 days	
V591	a8c	largest number drinks of wine past 30 days	
V592	a8e	largest number drinks of spirit past 30 days	
V593	a9	times drank 6+ drinks in single occasion past 30 days	
V594	ax1	consumed alcohol past 7 days	
V595	a10x1	drank on Monday	
V596	a10x2	drank on Tuesday	
V597	a10x3	drank on Wednesday	
V598	a10x4	drank on Thursday	
V599	a10x5	drank on Friday	
V600	a10x6	drank on Saturday	
V601	a10x7	drank on Sunday	
V602	a10a	number of drinks consumed last Monday	
V603	a10b	number of drinks consumed last Tuesday	
V604	a10c	number of drinks consumed last Wednesday	
V605	a10d	number of drinks consumed last Thursday	
V606	a10e	number of drinks consumed last Friday	
V607	a10f	number of drinks consumed last Saturday	
V608	a10g	number of drinks consumed last Sunday	

ID	Name	Label	Question
V609	a11	drank undeclared alcohol in past 7 days	
V610	a12x1	drank homebrewed spirits past 7 days	
V611	a12x2	drank homebrewed beer past 7 days	
V612	a12x3	drank drinks from over the border past 7 days	
V613	a12x4	drank alcohol not intended for consumption past 7 days	
V614	a12x5	drank untaxed alcohol past 7 days	
V615	a12a	number of homebrewed spirits in past 7 days	
V616	a12b	number of homebrewed beer or wine in past 7 days	
V617	a12c	number of drinks from over the border in past 7 days	
V618	a12d	number of drinks of alcohol not intended for consumption in past 7 days	
V619	a12e	number of drinks of other untaxed alcohol in past 7 days	
V620	a16	family problems with alcohol in past 12 mos	
V621	d1	days fruit eaten per week	
V622	d2	servings fruit eaten per day	
V623	d3	days veg eaten per week	
V624	d4	servings veg eaten per day	
V625	d5	adding salt when eating	
V626	d6	adding salt when cooking	
V627	d7	eating processed foods high in salt	
V628	d8	how much salt consumed	
V629	d12a	oil used most often: vegetable oil	
V630	d12b	oil used most often: lard or suet	
V631	d12c	oil used most often: butter or ghee	
V632	d12e	oil used most often: margarine	
V633	d12f	oil used most often: other	
V634	d12g	oil used most often: none in particular	
V635	d12h	oil used most often: none used	
V636	d12i	oil used most often: don't know	
V637	d13	meals per week outside home	
V638	p1	vig activity at work	
V639	p2	vig activity at work: days per week	
V640	p3a	vig activity at work: hours per day	
V641	p3b	vig activity at work: mins per day	
V642	p4	mod activity at work	
V643	p5	mod activity at work: days per week	
V644	p6a	mod activity at work: hours per day	
V645	p6b	mod activity at work: mins per day	
V646	p7	active transport	
V647	p8	active transport: days per week	
V648	p9a	active transport: hours per day	
V649	p9b	active transport: mins per day	
V650	p10	vig leisure activity	
V651	p11	vig leisure activity: days per week	
V652	p12a	vig leisure activity: hours per day	
V653	p12b	vig leisure activity: mins per day	

ID	Name	Label	Question
V654	p13	mod leisure activity	
V655	p14	mod leisure activity: days per week	
V656	p15a	mod leisure activity: hours per day	
V657	p15b	mod leisure activity: mins per day	
V658	p16b	sedentary time: mins per day	
V659	p16a	sedentary time: hours per day	
V660	h1	BP measured	
V661	h2a	told had high BP	
V662	h2b	told had high BP in past 12 mos	
V663	h3	taken meds for high BP	
V664	h4	seen trad'l healer for high BP	
V665	h5	taking trad'l meds for high BP	
V666	h6	gluc measured	
V667	h9	taking insulin for high gluc	
V668	h10	seen trad'l healer for high gluc	
V669	h11	taking trad'l meds for high gluc	
V670	h12	chol measured	
V671	h13a	told had high chol	
V672	h13b	told had high chol in past 12 mos	
V673	h14	taken meds for high chol	
V674	h15	seen trad'l healer for high chol	
V675	h16	taking trad'l meds for high chol	
V676	h17	had heart attack or stroke	
V677	h20a	advised to not smoke	
V678	h20e	advised to do pa	
V679	h20f	advised to lose weight	
V680	cx1	cervical cancer screening	
V681	hc1	current health insurance	
V682	hc2	type of health insurance	
V683	hc2other	specify other health insurance	
V684	hc3x1	financial sources used to pay for health expenditures: income	
V685	hc3x2	financial sources used to pay for health expenditures: savings	
V686	hc3x3	financial sources used to pay for health expenditures: health insurance plan	
V687	hc3x4	financial sources used to pay for health expenditures: sold items	
V688	hc3x5	financial sources used to pay for health expenditures: family members/friends ou	
V689	hc3x6	financial sources used to pay for health expenditures: borrowed	
V690	hc3x7	financial sources used to pay for health expenditures: other	
V691	other_financial_source	financial sources used to pay for health expenditures: other-spec.	
V692	hc4	has NCD	
V693	hc5	visited any health care facility	
V694	days_travel	travel time to HC facility: days	
V695	hrs_travel	travel time to HC facility: hours	
V696	mins_travel	travel time to HC facility: minutes	
V697	hc8	visited HC facility past 30 days	
V698	whrs	waiting time at HC facility: hours	

ID	Name	Label	Question
V699	wmins	waiting time at HC facility: minutes	
V700	hcv1	visited Health Center	
V701	hcv2	visited Health Public Hospital	
V702	hcv3	visited Health Private Hospital	
V703	hcv4	visited Health Doctor's Office	
V704	hcv5	visited Health Other	
V705	hc9a	times visited Health Center	
V706	hc9b	times visited Health Public Hospital	
V707	hc9c	times visited Health Private Hospital	
V708	hc9d	times visited Health Doctor's Office	
V709	hc9fe	times visited Health Other	
V710	hc9ther	times visited Health Other-specify	
V711	medfee	amount payed for medicines	
V712	otherfee	amount payed - other expences	
V713	testfee	amount payed for tests	
V714	transfee	amount payed for transport	
V715	totalfee	total amount payed	
V716	hcpay	amount payed for health care not related to visit to HC facility	
V717	hospitalized_days	days hospitalized during past 12 months	
V718	healthcarefee	HC provider's fees for hospital visits past 12 months	
V719	healthcarefee_medicine	medicines fees for hospital visits past 12 months	
V720	healthcarefee_other	other fees related to hospital visits past 12 months	
V721	healthcarefee_tests	tests fees for hospital visits past 12 months	
V722	healthcarefee_transport	transport fees for hospital visits past 12 months	
V723	healthcarefee_total	total fees related to hospital visits past 12 months	
V724	hc15	home care by family member during past 30 days	
V725	care_hrswk	care provided by family member: hours per week	
V726	as1	extent of access to health services	
V727	as2	reasons/difficulties for not accessing health services	
V728	as3	AS3	
V729	as201	reasons/difficulties for not accessing health services: lack of information	
V730	as202	reasons/difficulties for not accessing health services: no services/facility	
V731	as203	reasons/difficulties for not accessing health services: physical accessibility	
V732	as204	reasons/difficulties for not accessing health services: negative attitudes toward	
V733	as205	reasons/difficulties for not accessing health services: cost	
V734	as206	reasons/difficulties for not accessing health services: difficulty getting to se	
V735	as207	reasons/difficulties for not accessing health services: absence of personal assi	
V736	as210	reasons/difficulties for not accessing health services: healthy	
V737	as208	reasons/difficulties for not accessing health services: family did not want me t	
V738	as209	reasons/difficulties for not accessing health services: family has difficulty as	
V739	most_reasons	which reason limited access the most	
V740	m1	interviewer ID	
V741	m2	BP device ID	
V742	m4a	BP reading 1: systolic	
V743	m4b	BP reading 1: diastolic	

ID	Name	Label	Question
V744	m16a	heart rate reading 1	
V745	m5a	BP reading 2: systolic	
V746	m5b	BP reading 2: diastolic	
V747	m16b	heart rate reading 2	
V748	m6a	BP reading 3: systolic	
V749	m6b	BP reading 3: diastolic	
V750	m16c	heart rate reading 3	
V751	m7	took raised BP meds in past 2 weeks	
V752	m8	pregnant	
V753	m9	interviewer ID	
V754	m10a	height device ID	
V755	m10b	weight device ID	
V756	m11	height (cm)	
V757	m12	weight (kg)	
V758	m13	waist circ device ID	
V759	m14	waist circumference (cm)	
V760	m15	hip circumference (cm)	
V761	b1	fasting for past 12 hrs	
V762	b2	blood measures technician ID	
V763	b3	gluc device ID	
V764	b4a	time blood sample taken (hours)	
V765	b4b	time blood sample taken (minutes)	
V766	b6	took insulin today	
V767	b7	chol device ID	
V768	b8	total cholesterol (mmol/l)	
V769	b9	chol meds taken in past 2 weeks	
V770	b10	fasting prior to urine collection	
V771	b11	urinary measures technician ID	
V772	b12	urinary measures device ID	
V773	b13a	time urine sample taken (hours)	
V774	b13b	time urine sample taken (minutes)	
V775	b14	urinary sodium (mg/dl)	
V776	b15	urinary creatinine (mg/dl)	
V777	agerange	ageranges for which survey was designed	
V778	wstep1	final analysis weight for step 1 variables (interview)	
V779	wstep2	final analysis weight for step 2 variables (physical measures)	
V780	wstep3	final analysis weight for step 3 variables (biochemical measures)	
V781	psu	psu	
V782	stratum	stratum	

total: 256



**PID: participant ID - unique record ID****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0 Minimum: 1 Maximum: 4088 Mean: 2051.326 Standard deviation: 1180.209  
 Type: Continuous Decimal: 0 Width: 10 Range: 1 - 4088 Format: Numeric

**SEX: sex****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0  
 Type: Discrete Width: 5 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
Men		1369	35.5%
Women		2489	64.5%

**AGE: age for analysis****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0 Minimum: 18 Maximum: 69 Mean: 40.933 Standard deviation: 13.158  
 Type: Continuous Decimal: 0 Width: 10 Range: 18 - 69 Format: Numeric

**C4: yrs of education****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0 Minimum: 1 Maximum: 30 Mean: 11.712 Standard deviation: 2.679  
 Type: Continuous Decimal: 0 Width: 10 Range: 1 - 30 Format: Numeric

**C5: highest level of education****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 24 Range: 1 - 8 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Pre-school	2	0.1%
2	Primary	144	3.7%
3	Lower secondary	756	19.6%
4	Upper secondary	2160	56%
5	Technical and vocational	368	9.5%
6	Tertiary	428	11.1%
8	Other	0	0%

## C6: ethnic group

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 24 Range: 1 - 98 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Tongan	3830	99.3%
2	Part-Tongan	6	0.2%
3	European	6	0.2%
4	Fijian	5	0.1%
5	Fiji-Indian	4	0.1%
6	Chinese	0	0%
7	Other Pacific Islander	1	0%
8	Other Asian	1	0%
9	Not elsewhere classified	0	0%
98	Other (specify)	5	0.1%

## C7: marital status

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 30 Range: 1 - 8 Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Never married	691	17.9%
2	Married	2850	73.9%
3	Defacto or consensual marriage	32	0.8%
4	Widowed	183	4.7%
5	Separated	59	1.5%
6	Divorced	41	1.1%
8	Other	2	0.1%

## C: religious affiliation

Data file: tonga2017

### Overview

Valid: 3834 Invalid: 24

Type: Discrete Decimal: 0 Width: 71 Range: 1 - 98 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Free Wesleyan Church (FWC)	1442	37.6%
2	Roman Catholic (RC)	522	13.6%
3	Latter Day Saint (LDS)	739	19.3%
4	Free Church of Tonga (FCOT)	480	12.5%
5	Church of Tonga ( COT)	247	6.4%
6	Tokaikolo / Maamafo'ou	68	1.8%
7	Mo'ui Fo'ou 'ia Kalaisi	19	0.5%
8	Anglican Church (AC)	16	0.4%
9	Seventh Day Adventist (SDA)	80	2.1%
10	Assembly of God (AOG)	88	2.3%
11	Constitutional Church of Tonga (CCOT)	33	0.9%
12	Gospel Church	6	0.2%
13	Bahai Faith	33	0.9%
14	Buddhist	2	0.1%
15	The Salvation Army	10	0.3%
16	Jehovah's Witnesses	14	0.4%

17	Other Pentecostal Denomination (all Pentecostal Churches, excludes AOG)	35	0.9%
18	No religious affiliation	0	0%
19	Refuse to answer	0	0%
98	Other	0	0%
Sysmiss		24	

## C8: work status

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 52 Range: 1 - 14 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Employer	73	1.9%
2	Self-employed	254	6.6%
3	Employee, working for wages/salary in public sector	396	10.3%
4	Employee, working for wages/salary in private sector	448	11.6%
5	Producing goods for own and/or family consumption	442	11.5%
6	Unpaid family worker (family busines/ plantation)	145	3.8%
7	Unpaid family worker, help with basic HH duties	375	9.7%
8	Volunteer work	47	1.2%
9	Student - full time	106	2.7%
10	Student - part time	30	0.8%
11	Home duties	1501	38.9%
12	Retired/ too old	30	0.8%
13	None - did not pursue any activity	9	0.2%
14	Physically/ Mentally disabled	2	0.1%

## C9: adults older than 18yrs in household

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 15 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		381	9.9%
2		1438	37.3%
3		807	20.9%
4		562	14.6%
5		345	8.9%
6		170	4.4%
7		78	2%
8		44	1.1%
9		16	0.4%
10		7	0.2%
11		4	0.1%
12		2	0.1%
13		2	0.1%
14		1	0%
15		1	0%

### C11: average earnings in a month

Data file: tonga2017

#### Overview

Valid: 3853 Invalid: 5

Type: Discrete Decimal: 0 Width: 15 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	\$1-\$500	1337	34.7%
2	\$501-\$1000	1248	32.4%
3	\$1001-\$2000	582	15.1%
4	More than \$2000	686	17.8%
Sysmiss		5	

**T1: current smoking****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	950	24.6%
2	No	2908	75.4%

**T2: current daily smoking****Data file: tonga2017****Overview**

Valid: 951 Invalid: 2907

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.1%
1	Yes	879	92.4%
2	No	71	7.5%
Sysmiss		2907	

**T3: age started smoking****Data file: tonga2017****Overview**

Valid: 951 Invalid: 2907

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.1%

5		1	0.1%
6		1	0.1%
8		4	0.4%
9		5	0.5%
10		11	1.2%
11		16	1.7%
12		31	3.3%
13		28	2.9%
14		54	5.7%
15		86	9%
16		80	8.4%
17		78	8.2%
18		126	13.2%
19		68	7.2%
20		75	7.9%
21		43	4.5%
22		36	3.8%
23		27	2.8%
24		29	3%
25		43	4.5%
26		5	0.5%
27		9	0.9%
28		8	0.8%
29		4	0.4%
30		20	2.1%
31		5	0.5%
32		6	0.6%
33		6	0.6%
34		3	0.3%
35		5	0.5%
36		4	0.4%
38		5	0.5%
39		3	0.3%
40		7	0.7%
41		2	0.2%
42		3	0.3%
43		2	0.2%
45		2	0.2%
46		1	0.1%

49		2	0.2%
50		1	0.1%
53		1	0.1%
62		1	0.1%
99	Don't know	3	0.3%
Sysmiss		2907	

#### T4A: time since started smoking (years)

Data file: tonga2017

##### Overview

Valid: 5 Invalid: 3853 Minimum: 0 Maximum: 95 Mean: 39.8 Standard deviation: 50.102  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 95 Format: Numeric

#### T4B: time since started smoking (months)

Data file: tonga2017

##### Overview

Valid: 2 Invalid: 3856  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

##### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		2	100%
Sysmiss		3856	

#### T4C: time since started smoking (weeks)

Data file: tonga2017

##### Overview

Valid: 2 Invalid: 3856  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

##### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		2	100%

Sysmiss		3856	
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## T5X1: smoke manufactured cigarettes

Data file: tonga2017

### Overview

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 15 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	currently smoke	527	55.5%
2		423	44.5%
Sysmiss		2908	

## T5X2: smoke hand-rolled cigarettes

Data file: tonga2017

### Overview

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 15 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		834	87.8%
1	currently smoke	116	12.2%
Sysmiss		2908	

## T5X3: smoke pipes

Data file: tonga2017

### Overview

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 15 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		950	100%
1	currently smoke	0	0%
Sysmiss		2908	

### T5X4: smoke cigars

Data file: tonga2017

#### Overview

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 15 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		950	100%
1	currently smoke	0	0%
Sysmiss		2908	

### T5X5: smoke local tobacco

Data file: tonga2017

#### Overview

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 15 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		457	48.1%
1	currently smoke	493	51.9%
Sysmiss		2908	



**T5X6: smoke other****Data file: tonga2017****Overview**

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 15 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		950	100%
1	currently smoke	0	0%
Sysmiss		2908	

**TX1: how often smoke manufactured cigarettes****Data file: tonga2017****Overview**

Valid: 564 Invalid: 3294

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%
1	daily	481	85.3%
2	weekly	82	14.5%
Sysmiss		3294	

**T5A: manufactured cigs smoked per day****Data file: tonga2017****Overview**

Valid: 482 Invalid: 3376

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
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0		1	0.2%
1		7	1.5%
2		30	6.2%
3		52	10.8%
4		29	6%
5		58	12%
6		37	7.7%
7		16	3.3%
8		27	5.6%
9		1	0.2%
10		78	16.2%
11		3	0.6%
12		17	3.5%
13		2	0.4%
14		5	1%
15		28	5.8%
16		3	0.6%
17		1	0.2%
18		3	0.6%
19		1	0.2%
20		57	11.8%
25		7	1.5%
30		6	1.2%
40		5	1%
45		1	0.2%
50		2	0.4%
60		2	0.4%
99	Don't know	3	0.6%
Sysmiss		3376	

## T5AW: manufactured cigs smoked per week

Data file: tonga2017

### Overview

Valid: 83 Invalid: 3775

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 99 Format: Numeric

### Questions and instructions

Value	Category	Cases	
0		1	1.2%
1		6	7.2%
2		11	13.3%
3		9	10.8%
4		4	4.8%
5		21	25.3%
6		2	2.4%
7		2	2.4%
8		2	2.4%
10		8	9.6%
15		3	3.6%
20		8	9.6%
24		1	1.2%
30		1	1.2%
60		1	1.2%
99	Don't know	3	3.6%
Sysmiss		3775	

## TX2: how often smoke handroll cigarettes

Data file: tonga2017

### Overview

Valid: 116 Invalid: 3742

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	daily	102	87.9%
2	weekly	14	12.1%
Sysmiss		3742	

## T5B: hand-rolled cigs smoked per day

Data file: tonga2017

### Overview

Valid: 102 Invalid: 3756 Minimum: 1 Maximum: 40 Mean: 9.931 Standard deviation: 7.792

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 40 Format: Numeric

**T5BW: hand-rolled cigs smoked per week****Data file: tonga2017****Overview**

Valid: 15 Invalid: 3843

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 15 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	6.7%
1		3	20%
2		2	13.3%
4		3	20%
5		3	20%
6		1	6.7%
10		1	6.7%
15		1	6.7%
Sysmiss		3843	

**TX3: how often smoke pipe****Data file: tonga2017****Overview**

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	100%
1	daily	0	0%
2	weekly	0	0%
Sysmiss		3857	

**T5C: pipes smoked per day****Data file: tonga2017**

**Overview**

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

**T5CW: pipes smoked per week****Data file: tonga2017****Overview**

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

**TX4: how often smoke cigars****Data file: tonga2017****Overview**

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	100%
1	daily	0	0%
2	weekly	0	0%
Sysmiss		3857	

**T5D: cigars smoked per day****Data file: tonga2017****Overview**

Valid: 1    Invalid: 3857

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 0    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

**T5DW: cigars smoked per week****Data file: tonga2017****Overview**

Valid: 1    Invalid: 3857

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 0    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

**TX5: how often smoke local tobacco****Data file: tonga2017****Overview**

Valid: 494    Invalid: 3364

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%

1	daily	459	92.9%
2	weekly	34	6.9%
Sysmiss		3364	

**T5E: shisha sessions per day****Data file: tonga2017****Overview**

Valid: 460 Invalid: 3398 Minimum: 0 Maximum: 80 Mean: 9.6 Standard deviation: 7.775  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 80 Format: Numeric

**T5EW: shisha sessions per week****Data file: tonga2017****Overview**

Valid: 35 Invalid: 3823 Minimum: 0 Maximum: 25 Mean: 4.6 Standard deviation: 5.526  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 25 Format: Numeric

**T5F: other smoked per day****Data file: tonga2017****Overview**

Valid: 1 Invalid: 3857  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

**T5FW: other smoked per week****Data file: tonga2017****Overview**

Valid: 1 Invalid: 3857  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

## T6: stop smoking attempt in past 12 mos

Data file: tonga2017

### Overview

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	551	58%
2	No	399	42%
Sysmiss		2908	

## T7: advised by MD to stop smoking

Data file: tonga2017

### Overview

Valid: 950 Invalid: 2908

Type: Discrete Decimal: 0 Width: 31 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	410	43.2%
2	No	355	37.4%
3	No visit during the past 12 mos	185	19.5%
Sysmiss		2908	



**T8: past smoking****Data file: tonga2017****Overview**

Valid: 2909 Invalid: 949

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0%
1	Yes	401	13.8%
2	No	2507	86.2%
Sysmiss		949	

**T9: past daily smoking****Data file: tonga2017****Overview**

Valid: 402 Invalid: 3456

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%
1	Yes	326	81.1%
2	No	75	18.7%
Sysmiss		3456	

**T10: age quit smoking****Data file: tonga2017****Overview**

Valid: 402 Invalid: 3456

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%
1		2	0.5%
3		1	0.2%
4		2	0.5%
5		3	0.7%
6		1	0.2%
10		4	1%
13		3	0.7%
14		4	1%
15		5	1.2%
16		8	2%
17		7	1.7%
18		18	4.5%
19		16	4%
20		22	5.5%
21		19	4.7%
22		19	4.7%
23		13	3.2%
24		14	3.5%
25		19	4.7%
26		8	2%
27		13	3.2%
28		8	2%
29		8	2%
30		23	5.7%
31		8	2%
32		11	2.7%
33		2	0.5%
34		5	1.2%
35		9	2.2%
36		6	1.5%
37		5	1.2%
38		8	2%
39		8	2%
40		14	3.5%
41		2	0.5%
42		7	1.7%
43		8	2%

44		5	1.2%
45		4	1%
46		2	0.5%
47		6	1.5%
48		2	0.5%
49		2	0.5%
50		9	2.2%
51		2	0.5%
52		2	0.5%
53		1	0.2%
54		2	0.5%
55		2	0.5%
56		4	1%
58		1	0.2%
59		2	0.5%
60		5	1.2%
61		1	0.2%
62		4	1%
63		2	0.5%
64		1	0.2%
65		2	0.5%
68		1	0.2%
99	Don't know	6	1.5%
Sysmiss		3456	

## T17: exposed to smoke in home

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	1251	32.4%
2	No	2607	67.6%

**T18: exposed to smoke at work****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 27 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	417	10.8%
2	No	2245	58.2%
3	Don't work in a closed area	1196	31%

**A1: ever drank alcohol****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	654	17%
2	No	3204	83%

**A2: drank alcohol in past 12 mos****Data file: tonga2017****Overview**

Valid: 654 Invalid: 3204

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	545	83.3%
2	No	109	16.7%

Sysmiss		3204	
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### A3: stopped drinking due to health reasons

Data file: tonga2017

#### Overview

Valid: 109 Invalid: 3749

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	Yes	26	23.9%
2	No	83	76.1%
Sysmiss		3749	

### A4: freq drinking in past 12 mos

Data file: tonga2017

#### Overview

Valid: 653 Invalid: 3205

Type: Discrete Decimal: 0 Width: 22 Range: 1 - 6 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	Daily	23	3.5%
2	5-6 days per week	15	2.3%
3	3-4 days per week	23	3.5%
4	1-2 days per week	143	21.9%
5	1-3 days per month	192	29.4%
6	Less than once a month	257	39.4%
Sysmiss		3205	

### A5: drank alcohol in past 30 days

Data file: tonga2017

**Overview**

Valid: 654 Invalid: 3204

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	262	40.1%
2	No	392	59.9%
Sysmiss		3204	

**A6: number drinking occasions past 30 days****Data file: tonga2017****Overview**

Valid: 276 Invalid: 3582

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 12 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		66	23.9%
2		48	17.4%
3		71	25.7%
4		33	12%
5		15	5.4%
6		23	8.3%
7		9	3.3%
8		3	1.1%
9		3	1.1%
10		2	0.7%
11		2	0.7%
12		1	0.4%
Sysmiss		3582	

**A7X1: drink beer 3.5% past 30 days****Data file: tonga2017**

**Overview**

Valid: 276 Invalid: 3582

Type: Discrete Decimal: 0 Width: 21 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		117	42.4%
1	drank in past 30 days	159	57.6%
Sysmiss		3582	

**A7X2: drink beer 5% past 30 days****Data file: tonga2017****Overview**

Valid: 276 Invalid: 3582

Type: Discrete Decimal: 0 Width: 21 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		46	16.7%
1	drank in past 30 days	230	83.3%
Sysmiss		3582	

**A7X3: drink wine past 30 days****Data file: tonga2017****Overview**

Valid: 276 Invalid: 3582

Type: Discrete Decimal: 0 Width: 21 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		124	44.9%
1	drank in past 30 days	152	55.1%
Sysmiss		3582	

**A7X4: drink spirits past 30 days****Data file: tonga2017****Overview**

Valid: 276 Invalid: 3582

Type: Discrete Decimal: 0 Width: 21 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		193	69.9%
1	drank in past 30 days	83	30.1%
Sysmiss		3582	

**A7A: average number drinks of beer 3.5% per occasion past 30 days****Data file: tonga2017****Overview**

Valid: 188 Invalid: 3670

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 17 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		29	15.4%
2		5	2.7%
3		17	9%
4		10	5.3%
5		10	5.3%
6		46	24.5%
7		7	3.7%
8		8	4.3%
9		37	19.7%
10		8	4.3%
11		1	0.5%
12		4	2.1%
14		3	1.6%



15		2	1.1%
17		1	0.5%
Sysmiss		3670	

### A7B: average number drinks of beer 5% per occasion past 30 days

Data file: tonga2017

#### Overview

Valid: 230 Invalid: 3628 Minimum: 2 Maximum: 24 Mean: 6.039 Standard deviation: 3.461  
Type: Continuous Decimal: 0 Width: 10 Range: 2 - 24 Format: Numeric

### A7C: average number drinks of wine per occasion past 30 days

Data file: tonga2017

#### Overview

Valid: 183 Invalid: 3675  
Type: Discrete Decimal: 0 Width: 10 Range: 1 - 12 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		2	1.1%
2		62	33.9%
3		34	18.6%
4		20	10.9%
5		11	6%
6		10	5.5%
7		12	6.6%
8		1	0.5%
12		31	16.9%
Sysmiss		3675	

### A7D: average number drinks of spirits per occasion past 30 days

Data file: tonga2017

#### Overview

Valid: 322 Invalid: 3536  
Type: Discrete Decimal: 0 Width: 10 Range: 1 - 10 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		72	22.4%
2		59	18.3%
3		85	26.4%
4		39	12.1%
5		1	0.3%
6		3	0.9%
8		33	10.2%
10		30	9.3%
Sysmiss		3536	

### A8: largest number drinks past 30 days

Data file: tonga2017

#### Overview

Valid: 2885 Invalid: 973 Minimum: 0 Maximum: 27 Mean: 1.582 Standard deviation: 4.144  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 27 Format: Numeric

### A8A: largest number drinks of beer 3.5% past 30 days

Data file: tonga2017

#### Overview

Valid: 188 Invalid: 3670  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 12 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		30	16%
1		21	11.2%
2		18	9.6%
3		42	22.3%
4		33	17.6%
5		19	10.1%
6		5	2.7%
7		18	9.6%

10		1	0.5%
12		1	0.5%
Sysmiss		3670	

### A8B: largest number drinks of beer 5% past 30 days

Data file: tonga2017

#### Overview

Valid: 239 Invalid: 3619

Type: Discrete Decimal: 0 Width: 10 Range: 2 - 14 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
2		22	9.2%
3		9	3.8%
4		2	0.8%
5		25	10.5%
6		33	13.8%
7		16	6.7%
8		47	19.7%
9		40	16.7%
10		18	7.5%
11		10	4.2%
12		16	6.7%
14		1	0.4%
Sysmiss		3619	

### A8C: largest number drinks of wine past 30 days

Data file: tonga2017

#### Overview

Valid: 183 Invalid: 3675

Type: Discrete Decimal: 0 Width: 10 Range: 2 - 9 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
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2		39	21.3%
3		39	21.3%
4		30	16.4%
5		47	25.7%
6		9	4.9%
7		1	0.5%
8		10	5.5%
9		8	4.4%
Sysmiss		3675	

## A8E: largest number drinks of spirit past 30 days

Data file: tonga2017

### Overview

Valid: 359 Invalid: 3499

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 10 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		119	33.1%
2		45	12.5%
3		104	29%
5		11	3.1%
6		42	11.7%
8		34	9.5%
9		3	0.8%
10		1	0.3%
Sysmiss		3499	

## A9: times drank 6+ drinks in single occasion past 30 days

Data file: tonga2017

### Overview

Valid: 163 Invalid: 3695

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		9	5.5%
2		152	93.3%
3		2	1.2%
Sysmiss		3695	

### AX1: consumed alcohol past 7 days

Data file: tonga2017

#### Overview

Valid: 234 Invalid: 3624

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		1	0.4%
1	Yes	133	56.8%
2	No	100	42.7%
Sysmiss		3624	

### A10X1: drank on Monday

Data file: tonga2017

#### Overview

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		108	81.2%
1	drank	25	18.8%
Sysmiss		3725	

**A10X2: drank on Tuesday****Data file: tonga2017****Overview**

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		111	83.5%
1	drank	22	16.5%
Sysmiss		3725	

**A10X3: drank on Wednesday****Data file: tonga2017****Overview**

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		113	85%
1	drank	20	15%
Sysmiss		3725	

**A10X4: drank on Thursday****Data file: tonga2017****Overview**

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		113	85%
1	drank	20	15%
Sysmiss		3725	

### A10X5: drank on Friday

Data file: tonga2017

#### Overview

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		100	75.2%
1	drank	33	24.8%
Sysmiss		3725	

### A10X6: drank on Saturday

Data file: tonga2017

#### Overview

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		105	78.9%
1	drank	28	21.1%
Sysmiss		3725	

### A10X7: drank on Sunday

Data file: tonga2017

#### Overview

Valid: 133 Invalid: 3725

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		109	82%
1	drank	24	18%
Sysmiss		3725	

## A10A: number of drinks consumed last Monday

Data file: tonga2017

### Overview

Valid: 133    Invalid: 3725

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 8    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		108	81.2%
1		2	1.5%
2		5	3.8%
3		3	2.3%
4		3	2.3%
5		4	3%
6		6	4.5%
8		2	1.5%
Sysmiss		3725	

## A10B: number of drinks consumed last Tuesday

Data file: tonga2017

### Overview

Valid: 133    Invalid: 3725

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 15    Format: Numeric

## Questions and instructions

### CATEGORIES



Value	Category	Cases	
0		112	84.2%
2		1	0.8%
3		1	0.8%
4		2	1.5%
5		2	1.5%
6		3	2.3%
7		1	0.8%
8		2	1.5%
9		3	2.3%
11		1	0.8%
12		3	2.3%
13		1	0.8%
15		1	0.8%
Sysmiss		3725	

### A10C: number of drinks consumed last Wednesday

Data file: tonga2017

#### Overview

Valid: 133 Invalid: 3725 Minimum: 0 Maximum: 24 Mean: 1.195 Standard deviation: 3.509  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 24 Format: Numeric

### A10D: number of drinks consumed last Thursday

Data file: tonga2017

#### Overview

Valid: 133 Invalid: 3725  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 15 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		100	75.2%
1		2	1.5%
2		3	2.3%
3		5	3.8%
4		2	1.5%
5		2	1.5%

6		6	4.5%
7		2	1.5%
8		4	3%
9		2	1.5%
11		1	0.8%
12		1	0.8%
13		1	0.8%
15		2	1.5%
Sysmiss		3725	

## A10E: number of drinks consumed last Friday

Data file: tonga2017

### Overview

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 11 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		105	78.9%
2		2	1.5%
3		2	1.5%
4		3	2.3%
5		2	1.5%
6		3	2.3%
7		3	2.3%
8		4	3%
9		5	3.8%
10		2	1.5%
11		2	1.5%
Sysmiss		3725	

## A10F: number of drinks consumed last Saturday

Data file: tonga2017

### Overview

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 9 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		107	80.5%
2		2	1.5%
3		3	2.3%
4		2	1.5%
5		5	3.8%
6		4	3%
7		2	1.5%
8		4	3%
9		4	3%
Sysmiss		3725	

### A10G: number of drinks consumed last Sunday

Data file: tonga2017

### Overview

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 12 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		103	77.4%
1		1	0.8%
2		1	0.8%
3		2	1.5%
4		3	2.3%
5		5	3.8%
6		4	3%
7		3	2.3%
8		5	3.8%
9		4	3%
12		2	1.5%
Sysmiss		3725	

**A11: drank undeclared alcohol in past 7 days****Data file: tonga2017****Overview**

Valid: 133 Invalid: 3725

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.8%
1	Yes	33	24.8%
2	No	99	74.4%
Sysmiss		3725	

**A12X1: drank homebrewed spirits past 7 days****Data file: tonga2017****Overview**

Valid: 34 Invalid: 3824

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	2.9%
1	drank	33	97.1%
Sysmiss		3824	

**A12X2: drank homebrewed beer past 7 days****Data file: tonga2017****Overview**

Valid: 34 Invalid: 3824

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
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0		34	100%
1	drank	0	0%
Sysmiss		3824	

**A12X3: drank drinks from over the border past 7 days****Data file: tonga2017****Overview**

Valid: 34 Invalid: 3824

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		34	100%
1	drank	0	0%
Sysmiss		3824	

**A12X4: drank alcohol not intended for consumption past 7 days****Data file: tonga2017****Overview**

Valid: 34 Invalid: 3824

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		34	100%
1	drank	0	0%
Sysmiss		3824	

**A12X5: drank untaxed alcohol past 7 days****Data file: tonga2017****Overview**

Valid: 34 Invalid: 3824

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		34	100%
1	drank	0	0%
Sysmiss		3824	

## A12A: number of homebrewed spirits in past 7 days

Data file: tonga2017

### Overview

Valid: 34 Invalid: 3824

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		1	2.9%
2		33	97.1%
Sysmiss		3824	

## A12B: number of homebrewed beer or wine in past 7 days

Data file: tonga2017

### Overview

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

## A12C: number of drinks from over the border in past 7 days

Data file: tonga2017

**Overview**

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

---

**A12D: number of drinks of alcohol not intended for consumption in past 7 days****Data file: tonga2017****Overview**

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

---

**A12E: number of drinks of other untaxed alcohol in past 7 days****Data file: tonga2017****Overview**

Valid: 1 Invalid: 3857

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category	Cases	
0		1	100%
Sysmiss		3857	

---

**A16: family problems with alcohol in past 12 mos****Data file: tonga2017****Overview**

Valid: 3204 Invalid: 654

Type: Discrete Decimal: 0 Width: 40 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes, more than monthly	7	0.2%
2	Yes, monthly	4	0.1%
3	Yes, several times but less than monthly	19	0.6%
4	Yes, once or twice	54	1.7%
5	No	3120	97.4%
Sysmiss		654	

**D1: days fruit eaten per week****Data file: tonga2017****Overview**

Valid: 3699 Invalid: 159

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		662	17.9%
2		936	25.3%
3		814	22%
4		264	7.1%
5		252	6.8%
6		199	5.4%
7		572	15.5%
Sysmiss		159	

**D2: servings fruit eaten per day****Data file: tonga2017**



**Overview**

Valid: 3699 Invalid: 159

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 9 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		2513	67.9%
2		838	22.7%
3		232	6.3%
4		39	1.1%
5		35	0.9%
6		14	0.4%
7		23	0.6%
8		3	0.1%
9		2	0.1%
Sysmiss		159	

**D3: days veg eaten per week**

Data file: tonga2017

**Overview**

Valid: 3695 Invalid: 163

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		429	11.6%
2		709	19.2%
3		860	23.3%
4		409	11.1%
5		354	9.6%
6		303	8.2%
7		631	17.1%
Sysmiss		163	

**D4: servings veg eaten per day****Data file: tonga2017****Overview**

Valid: 3695 Invalid: 163

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 9 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		2797	75.7%
2		632	17.1%
3		160	4.3%
4		44	1.2%
5		21	0.6%
6		11	0.3%
7		27	0.7%
8		2	0.1%
9		1	0%
Sysmiss		163	

**D5: adding salt when eating****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 9 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Always	1564	40.5%
2	Often	399	10.3%
3	Sometimes	1125	29.2%
4	Rarely	561	14.5%
5	Never	205	5.3%
9	Don't know	4	0.1%

**D6: adding salt when cooking****Data file: tonga2017****Overview**

Valid: 3857 Invalid: 1

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 9 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Always	970	25.1%
2	Often	375	9.7%
3	Sometimes	1333	34.6%
4	Rarely	650	16.9%
5	Never	522	13.5%
9	Don't know	7	0.2%
Sysmiss		1	

**D7: eating processed foods high in salt****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 9 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Always	303	7.9%
2	Often	565	14.6%
3	Sometimes	1659	43%
4	Rarely	1161	30.1%
5	Never	163	4.2%
9	Don't know	7	0.2%

**D8: how much salt consumed****Data file: tonga2017**

**Overview**

Valid: 3858   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 21   Range: 1 - 9   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Far too much	86	2.2%
2	Too much	629	16.3%
3	Just the right amount	2398	62.2%
4	Too little	523	13.6%
5	Far too little	194	5%
9	Don't know	28	0.7%

**D12A: oil used most often: vegetable oil**

Data file: tonga2017

**Overview**

Valid: 3611   Invalid: 247  
 Type: Discrete   Decimal: 0   Width: 10   Range: 1 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	yes	3611	100%
Sysmiss		247	

**D12B: oil used most often: lard or suet**

Data file: tonga2017

**Overview**

Valid: 3858   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 10   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3238	83.9%

1	yes	620	16.1%
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## D12C: oil used most often: butter or ghee

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0  
Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2171	56.3%
1	yes	1687	43.7%

## D12E: oil used most often: margarine

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0  
Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3444	89.3%
1	yes	414	10.7%

## D12F: oil used most often: other

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0  
Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
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0		3486	90.4%
1	yes	372	9.6%

**D12G: oil used most often: none in particular****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3752	97.3%
1	yes	106	2.7%

**D12H: oil used most often: none used****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3824	99.1%
1	yes	34	0.9%

**D12I: oil used most often: don't know****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3850	99.8%
1	yes	8	0.2%

### D13: meals per week outside home

Data file: tonga2017

#### Overview

Valid: 2030 Invalid: 1828

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 12 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1		1020	50.2%
2		530	26.1%
3		279	13.7%
4		74	3.6%
5		78	3.8%
6		34	1.7%
7		11	0.5%
8		1	0%
9		1	0%
10		1	0%
12		1	0%
Sysmiss		1828	

### P1: vig activity at work

Data file: tonga2017

#### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	Yes	643	16.7%

2	No	3215	83.3%
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## P2: vig activity at work: days per week

Data file: tonga2017

### Overview

Valid: 643 Invalid: 3215

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 7 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		78	12.1%
2		95	14.8%
3		137	21.3%
4		62	9.6%
5		123	19.1%
6		139	21.6%
7		9	1.4%
Sysmiss		3215	

## P3A: vig activity at work: hours per day

Data file: tonga2017

### Overview

Valid: 578 Invalid: 3280

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 10 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		119	20.6%
2		128	22.1%
3		115	19.9%
4		71	12.3%
5		54	9.3%
6		38	6.6%
7		10	1.7%



8		40	6.9%
9		2	0.3%
10		1	0.2%
Sysmiss		3280	

### P3B: vig activity at work: mins per day

Data file: tonga2017

#### Overview

Valid: 226 Invalid: 3632 Minimum: 1 Maximum: 60 Mean: 27.65 Standard deviation: 10.05  
Type: Continuous Decimal: 0 Width: 10 Range: 1 - 60 Format: Numeric

### P4: mod activity at work

Data file: tonga2017

#### Overview

Valid: 3858 Invalid: 0  
Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	1340	34.7%
2	No	2518	65.3%

### P5: mod activity at work: days per week

Data file: tonga2017

#### Overview

Valid: 1339 Invalid: 2519 Minimum: 1 Maximum: 50 Mean: 4.371 Standard deviation: 2.213  
Type: Continuous Decimal: 0 Width: 10 Range: 1 - 50 Format: Numeric

### P6A: mod activity at work: hours per day

Data file: tonga2017

#### Overview

Valid: 1120 Invalid: 2738  
Type: Discrete Decimal: 0 Width: 10 Range: 1 - 15 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		243	21.7%
2		269	24%
3		171	15.3%
4		139	12.4%
5		100	8.9%
6		88	7.9%
7		21	1.9%
8		64	5.7%
9		15	1.3%
10		5	0.4%
11		2	0.2%
12		2	0.2%
15		1	0.1%
Sysmiss		2738	

### P6B: mod activity at work: mins per day

Data file: tonga2017

#### Overview

Valid: 456 Invalid: 3402 Minimum: 1 Maximum: 60 Mean: 30.978 Standard deviation: 10.039  
 Type: Continuous Decimal: 0 Width: 10 Range: 1 - 60 Format: Numeric

### P7: active transport

Data file: tonga2017

#### Overview

Valid: 3858 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	2216	57.4%
2	No	1642	42.6%

**P8: active transport: days per week****Data file: tonga2017****Overview**

Valid: 2216 Invalid: 1642

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		132	6%
2		314	14.2%
3		368	16.6%
4		203	9.2%
5		359	16.2%
6		387	17.5%
7		453	20.4%
Sysmiss		1642	

**P9A: active transport: hours per day****Data file: tonga2017****Overview**

Valid: 941 Invalid: 2917

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 20 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		628	66.7%
2		223	23.7%
3		46	4.9%
4		22	2.3%
5		3	0.3%
6		8	0.9%
7		1	0.1%
8		2	0.2%

10		1	0.1%
12		1	0.1%
15		2	0.2%
20		4	0.4%
Sysmiss		2917	

## P9B: active transport: mins per day

Data file: tonga2017

### Overview

Valid: 1557 Invalid: 2301 Minimum: 1 Maximum: 55 Mean: 27.378 Standard deviation: 10.02  
 Type: Continuous Decimal: 0 Width: 10 Range: 1 - 55 Format: Numeric

## P10: vig leisure activity

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	299	7.8%
2	No	3559	92.2%

## P11: vig leisure activity: days per week

Data file: tonga2017

### Overview

Valid: 300 Invalid: 3558  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 7 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		1	0.3%
1		38	12.7%

2		57	19%
3		63	21%
4		22	7.3%
5		73	24.3%
6		43	14.3%
7		3	1%
Sysmiss		3558	

## P12A: vig leisure activity: hours per day

Data file: tonga2017

### Overview

Valid: 226 Invalid: 3632

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 5 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		112	49.6%
2		83	36.7%
3		24	10.6%
4		6	2.7%
5		1	0.4%
Sysmiss		3632	

## P12B: vig leisure activity: mins per day

Data file: tonga2017

### Overview

Valid: 136 Invalid: 3722 Minimum: 1 Maximum: 50 Mean: 29.463 Standard deviation: 8.88

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 50 Format: Numeric

## P13: mod leisure activity

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	320	8.3%
2	No	3538	91.7%

## P14: mod leisure activity: days per week

Data file: tonga2017

### Overview

Valid: 320 Invalid: 3538

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 7 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		50	15.6%
2		62	19.4%
3		68	21.3%
4		25	7.8%
5		62	19.4%
6		50	15.6%
7		3	0.9%
Sysmiss		3538	

## P15A: mod leisure activity: hours per day

Data file: tonga2017

### Overview

Valid: 231 Invalid: 3627

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 6 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		123	53.2%
2		74	32%

3		23	10%
4		5	2.2%
5		3	1.3%
6		3	1.3%
Sysmiss		3627	

### P15B: mod leisure activity: mins per day

Data file: tonga2017

#### Overview

Valid: 150 Invalid: 3708 Minimum: 5 Maximum: 50 Mean: 30.653 Standard deviation: 8.959  
Type: Continuous Decimal: 0 Width: 10 Range: 5 - 50 Format: Numeric

### P16B: sedentary time: mins per day

Data file: tonga2017

#### Overview

Valid: 1393 Invalid: 2465 Minimum: 1 Maximum: 60 Mean: 27.683 Standard deviation: 10.229  
Type: Continuous Decimal: 0 Width: 10 Range: 1 - 60 Format: Numeric

### P16A: sedentary time: hours per day

Data file: tonga2017

#### Overview

Valid: 3422 Invalid: 436  
Type: Discrete Decimal: 0 Width: 10 Range: 1 - 20 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		644	18.8%
2		781	22.8%
3		688	20.1%
4		499	14.6%
5		357	10.4%
6		192	5.6%
7		60	1.8%
8		107	3.1%
9		23	0.7%

10		33	1%
11		4	0.1%
12		9	0.3%
13		2	0.1%
14		1	0%
15		11	0.3%
20		11	0.3%
Sysmiss		436	

**H1: BP measured****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	2869	74.4%
2	No	989	25.6%

**H2A: told had high BP****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	597	15.5%
2	No	3261	84.5%

**H2B: told had high BP in past 12 mos****Data file: tonga2017**



**Overview**

Valid: 586 Invalid: 3272

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%
1	Yes	423	72.2%
2	No	162	27.6%
Sysmiss		3272	

**H3: taken meds for high BP****Data file: tonga2017****Overview**

Valid: 586 Invalid: 3272

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%
1	Yes	345	58.9%
2	No	240	41%
Sysmiss		3272	

**H4: seen trad'l healer for high BP****Data file: tonga2017****Overview**

Valid: 586 Invalid: 3272

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%

1	Yes	35	6%
2	No	550	93.9%
Sysmiss		3272	

## H5: taking trad'l meds for high BP

Data file: tonga2017

### Overview

Valid: 586 Invalid: 3272

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		1	0.2%
1	Yes	39	6.7%
2	No	546	93.2%
Sysmiss		3272	

## H6: gluc measured

Data file: tonga2017

### Overview

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	2378	61.6%
2	No	1480	38.4%

## H9: taking insulin for high gluc

Data file: tonga2017

### Overview

Valid: 2378 Invalid: 1480

Type: Discrete Decimal: 0 Width: 10 Range: -999999999 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
-999999999		1	0%
1	Yes	173	7.3%
2	No	2204	92.7%
Sysmiss		1480	

### H10: seen trad'l healer for high gluc

Data file: tonga2017

#### Overview

Valid: 2378 Invalid: 1480

Type: Discrete Decimal: 0 Width: 10 Range: -999999999 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
-999999999		1	0%
1	Yes	26	1.1%
2	No	2351	98.9%
Sysmiss		1480	

### H11: taking trad'l meds for high gluc

Data file: tonga2017

#### Overview

Valid: 2378 Invalid: 1480

Type: Discrete Decimal: 0 Width: 10 Range: -999999999 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
-999999999		1	0%
1	Yes	40	1.7%
2	No	2337	98.3%
Sysmiss		1480	

**H12: chol measured****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: -999999999 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
-999999999		1	0%
1	Yes	1059	27.4%
2	No	2798	72.5%

**H13A: told had high chol****Data file: tonga2017****Overview**

Valid: 1060 Invalid: 2798

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.1%
1	Yes	286	27%
2	No	773	72.9%
Sysmiss		2798	

**H13B: told had high chol in past 12 mos****Data file: tonga2017****Overview**

Valid: 287 Invalid: 3571

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		1	0.3%
1	Yes	210	73.2%
2	No	76	26.5%
Sysmiss		3571	

### H14: taken meds for high chol

Data file: tonga2017

#### Overview

Valid: 287 Invalid: 3571

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		1	0.3%
1	Yes	169	58.9%
2	No	117	40.8%
Sysmiss		3571	

### H15: seen trad'l healer for high chol

Data file: tonga2017

#### Overview

Valid: 287 Invalid: 3571

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		1	0.3%
1	Yes	15	5.2%
2	No	271	94.4%
Sysmiss		3571	

**H16: taking trad'l meds for high chol****Data file:** tonga2017**Overview**

Valid: 287    Invalid: 3571

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.3%
1	Yes	12	4.2%
2	No	274	95.5%
Sysmiss		3571	

**H17: had heart attack or stroke****Data file:** tonga2017**Overview**

Valid: 3858    Invalid: 0

Type: Discrete    Decimal: 0    Width: 10    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	215	5.6%
2	No	3643	94.4%

**H20A: advised to not smoke****Data file:** tonga2017**Overview**

Valid: 3858    Invalid: 0

Type: Discrete    Decimal: 0    Width: 10    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	1241	32.2%
2	No	2617	67.8%

**H20E: advised to do pa****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	2065	53.5%
2	No	1793	46.5%

**H20F: advised to lose weight****Data file: tonga2017****Overview**

Valid: 3858 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	2015	52.2%
2	No	1843	47.8%

**CX1: cervical cancer screening****Data file: tonga2017****Overview**

Valid: 3733 Invalid: 125

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 9 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		190	5.1%
2		3024	81%
9		519	13.9%
Sysmiss		125	

### HC1: current health insurance

Data file: tonga2017

#### Overview

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		406	11.1%
2		3243	88.9%
Sysmiss		209	

### HC2: type of health insurance

Data file: tonga2017

#### Overview

Valid: 406 Invalid: 3452

Type: Discrete Decimal: 0 Width: 31 Range: 1 - 9 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Mandatory health insurance plan	335	82.5%
2	Voluntary health insurance plan	46	11.3%
3	Other	19	4.7%
9	Don't know	6	1.5%
Sysmiss		3452	



**HC2OTHER: specify other health insurance****Data file: tonga2017****Overview**

Valid: 0 Invalid: 3858

Type: Discrete Decimal: 0 Width: 10 Range: - Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
Sysmiss	

**HC3X1: financial sources used to pay for health expenditures: income****Data file: tonga2017****Overview**

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 24 Range: -999999999 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
-999999999		9	0.2%
0		1231	33.7%
1	used as financial source	2409	66%
Sysmiss		209	

**HC3X2: financial sources used to pay for health expenditures: savings****Data file: tonga2017****Overview**

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 24 Range: -999999999 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
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-999999999		9	0.2%
0		2652	72.7%
1	used as financial source	988	27.1%
Sysmiss		209	

### HC3X3: financial sources used to pay for health expenditures: health insurance plan

Data file: tonga2017

#### Overview

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 24 Range: -999999999 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
-999999999		9	0.2%
0		3593	98.5%
1	used as financial source	47	1.3%
Sysmiss		209	

### HC3X4: financial sources used to pay for health expenditures: sold items

Data file: tonga2017

#### Overview

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 24 Range: -999999999 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
-999999999		9	0.2%
0		3270	89.6%
1	used as financial source	370	10.1%
Sysmiss		209	

### HC3X5: financial sources used to pay for health expenditures: family members/friends ou

Data file: tonga2017

**Overview**

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 24 Range: -999999999 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
-999999999		9	0.2%
0		3113	85.3%
1	used as financial source	527	14.4%
Sysmiss		209	

**HC3X6: financial sources used to pay for health expenditures: borrowed**

Data file: tonga2017

**Overview**

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 24 Range: -999999999 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
-999999999		9	0.2%
0		3542	97.1%
1	used as financial source	98	2.7%
Sysmiss		209	

**HC3X7: financial sources used to pay for health expenditures: other**

Data file: tonga2017

**Overview**

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 24 Range: -999999999 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
-999999999		9	0.2%

0		3398	93.1%
1	used as financial source	242	6.6%
Sysmiss		209	

## OTHER\_FINANCIAL\_SOURCE: financial sources used to pay for health expenditures: other-spec.

Data file: tonga2017

### Overview

Valid: 0 Invalid: 3858

Type: Discrete Decimal: 0 Width: 10 Range: - Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
Sysmiss	

## HC4: has NCD

Data file: tonga2017

### Overview

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		407	11.2%
2		3242	88.8%
Sysmiss		209	

## HC5: visited any health care facility

Data file: tonga2017

### Overview

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		272	7.5%
2		3377	92.5%
Sysmiss		209	

## DAYS\_TRAVEL: travel time to HC facility: days

Data file: tonga2017

### Overview

Valid: 272 Invalid: 3586

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		187	68.8%
1		82	30.1%
2		2	0.7%
3		1	0.4%
Sysmiss		3586	

## HRS\_TRAVEL: travel time to HC facility: hours

Data file: tonga2017

### Overview

Valid: 272 Invalid: 3586

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 15 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		197	72.4%
1		45	16.5%
2		18	6.6%
3		5	1.8%

4		3	1.1%
5		1	0.4%
7		1	0.4%
15		2	0.7%
Sysmiss		3586	

## MINS\_TRAVEL: travel time to HC facility: minutes

Data file: tonga2017

### Overview

Valid: 272 Invalid: 3586 Minimum: 0 Maximum: 55 Mean: 16.941 Standard deviation: 12.72  
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 55 Format: Numeric

## HC8: visited HC facility past 30 days

Data file: tonga2017

### Overview

Valid: 272 Invalid: 3586  
Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		109	40.1%
2		163	59.9%
Sysmiss		3586	

## WHRS: waiting time at HC facility: hours

Data file: tonga2017

### Overview

Valid: 272 Invalid: 3586  
Type: Discrete Decimal: 0 Width: 10 Range: 0 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		155	57%

1		83	30.5%
2		26	9.6%
3		8	2.9%
Sysmiss		3586	

## WMINS: waiting time at HC facility: minutes

Data file: tonga2017

### Overview

Valid: 272 Invalid: 3586 Minimum: 0 Maximum: 50 Mean: 18.662 Standard deviation: 14.412  
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 50 Format: Numeric

## HCV1: visited Health Center

Data file: tonga2017

### Overview

Valid: 109 Invalid: 3749  
Type: Discrete Decimal: 0 Width: 23 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		65	59.6%
1	visited in past 30 days	44	40.4%
Sysmiss		3749	

## HCV2: visited Health Public Hospital

Data file: tonga2017

### Overview

Valid: 109 Invalid: 3749  
Type: Discrete Decimal: 0 Width: 23 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		47	43.1%
1	visited in past 30 days	62	56.9%

Sysmiss		3749	
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### HCV3: visited Health Private Hospital

Data file: tonga2017

#### Overview

Valid: 109 Invalid: 3749

Type: Discrete Decimal: 0 Width: 23 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		106	97.2%
1	visited in past 30 days	3	2.8%
Sysmiss		3749	

### HCV4: visited Health Doctor's Office

Data file: tonga2017

#### Overview

Valid: 44 Invalid: 3814

Type: Discrete Decimal: 0 Width: 23 Range: 1 - 99 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	visited in past 30 days	39	88.6%
2		3	6.8%
3		1	2.3%
99		1	2.3%
Sysmiss		3814	

### HCV5: visited Health Other

Data file: tonga2017

#### Overview

Valid: 109 Invalid: 3749

Type: Discrete Decimal: 0 Width: 23 Range: 0 - 1 Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		106	97.2%
1	visited in past 30 days	3	2.8%
Sysmiss		3749	

### HC9A: times visited Health Center

Data file: tonga2017

#### Overview

Valid: 109 Invalid: 3749

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		109	100%
Sysmiss		3749	

### HC9B: times visited Health Public Hospital

Data file: tonga2017

#### Overview

Valid: 62 Invalid: 3796

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		54	87.1%
2		6	9.7%
3		1	1.6%
4		1	1.6%
Sysmiss		3796	

**HC9C: times visited Health Private Hospital****Data file: tonga2017****Overview**

Valid: 3 Invalid: 3855

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		3	100%
Sysmiss		3855	

**HC9D: times visited Health Doctor's Office****Data file: tonga2017****Overview**

Valid: 3 Invalid: 3855

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		2	66.7%
3		1	33.3%
Sysmiss		3855	

**HC9FE: times visited Health Other****Data file: tonga2017****Overview**

Valid: 101 Invalid: 3757 Minimum: 0 Maximum: 30 Mean: 1.792 Standard deviation: 6.266

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 30 Format: Numeric

**HC9THER: times visited Health Other-specify****Data file: tonga2017****Overview**

Valid: 0 Invalid: 3858

Type: Discrete Decimal: 0 Width: 10 Range: - Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
Sysmiss	

### **MEDFEE: amount payed for medicines**

**Data file: tonga2017**

#### **Overview**

Valid: 104   Invalid: 3754   Minimum: 0   Maximum: 50   Mean: 3.298   Standard deviation: 9.832  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 50   Format: Numeric

### **OTHERFEE: amount payed - other expences**

**Data file: tonga2017**

#### **Overview**

Valid: 103   Invalid: 3755   Minimum: 0   Maximum: 30   Mean: 0.583   Standard deviation: 3.283  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 30   Format: Numeric

### **TESTFEE: amount payed for tests**

**Data file: tonga2017**

#### **Overview**

Valid: 100   Invalid: 3758   Minimum: 0   Maximum: 100   Mean: 2.55   Standard deviation: 13.808  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 100   Format: Numeric

### **TRANSFEE: amount payed for transport**

**Data file: tonga2017**

#### **Overview**

Valid: 103   Invalid: 3755   Minimum: 0   Maximum: 100   Mean: 7.359   Standard deviation: 14.551  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 100   Format: Numeric

### **TOTALFEE: total amount payed**

**Data file: tonga2017**

#### **Overview**

Valid: 105   Invalid: 3753   Minimum: 0   Maximum: 160   Mean: 14.276   Standard deviation: 26.65  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 160   Format: Numeric

**HCPAY: amount paid for health care not related to visit to HC facility****Data file: tonga2017****Overview**

Valid: 272 Invalid: 3586 Minimum: -999999999 Maximum: 600 Mean: -3676463.18 Standard deviation: 60633906.649  
 Type: Continuous Decimal: 0 Width: 10 Range: -999999999 - 600 Format: Numeric

**HOSPITALIZED\_DAYS: days hospitalized during past 12 months****Data file: tonga2017****Overview**

Valid: 272 Invalid: 3586 Minimum: -999999999 Maximum: 122 Mean: -11029410.662 Standard deviation: 104632757.271  
 Type: Continuous Decimal: 0 Width: 10 Range: -999999999 - 122 Format: Numeric

**HEALTHCAREFEE: HC provider's fees for hospital visits past 12 months****Data file: tonga2017****Overview**

Valid: 25 Invalid: 3833 Minimum: 0 Maximum: 105 Mean: 15.24 Standard deviation: 30.973  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 105 Format: Numeric

**HEALTHCAREFEE\_MEDICINE: medicines fees for hospital visits past 12 months****Data file: tonga2017****Overview**

Valid: 24 Invalid: 3834  
 Type: Discrete Decimal: 0 Width: 10 Range: 0 - 15 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		22	91.7%
5		1	4.2%
15		1	4.2%
Sysmiss		3834	

**HEALTHCAREFEE\_OTHER: other fees related to hospital visits past 12 months****Data file: tonga2017****Overview**

Valid: 24 Invalid: 3834

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 20 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		21	87.5%
2		1	4.2%
14		1	4.2%
20		1	4.2%
Sysmiss		3834	

**HEALTHCAREFEE\_TESTS: tests fees for hospital visits past 12 months****Data file: tonga2017****Overview**

Valid: 24 Invalid: 3834 Minimum: 0 Maximum: 25 Mean: 1.125 Standard deviation: 5.102

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 25 Format: Numeric

**HEALTHCAREFEE\_TRANSPORT: transport fees for hospital visits past 12 months****Data file: tonga2017****Overview**

Valid: 25 Invalid: 3833 Minimum: 0 Maximum: 60 Mean: 16.04 Standard deviation: 16.41

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 60 Format: Numeric

**HEALTHCAREFEE\_TOTAL: total fees related to hospital visits past 12 months****Data file: tonga2017****Overview**

Valid: 25 Invalid: 3833 Minimum: 0 Maximum: 165 Mean: 35.4 Standard deviation: 42.026

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 165 Format: Numeric

**HC15: home care by family member during past 30 days****Data file: tonga2017**

**Overview**

Valid: 3563 Invalid: 295

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		45	1.3%
2		3518	98.7%
Sysmiss		295	

**CARE\_HRSWK: care provided by family member: hours per week**

Data file: tonga2017

**Overview**

Valid: 45 Invalid: 3813 Minimum: 0 Maximum: 1600 Mean: 61.533 Standard deviation: 238.096

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 1600 Format: Numeric

**AS1: extent of access to health services**

Data file: tonga2017

**Overview**

Valid: 3649 Invalid: 209

Type: Discrete Decimal: 0 Width: 41 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	as much as I needed	1214	33.3%
2	most times	550	15.1%
3	some times	1338	36.7%
4	not at all	250	6.9%
5	have not needed to access health services	297	8.1%
Sysmiss		209	

**AS2: reasons/difficulties for not accessing health services**

Data file: tonga2017

**Overview**

Valid: 3563 Invalid: 295

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	49	1.4%
2	No	3514	98.6%
Sysmiss		295	

**AS3: AS3****Data file: tonga2017****Overview**

Valid: 49 Invalid: 3809

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 10 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		14	28.6%
2		12	24.5%
3		7	14.3%
5		5	10.2%
10		11	22.4%
Sysmiss		3809	

**AS201: reasons/difficulties for not accessing health services: lack of information****Data file: tonga2017****Overview**

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

0		489	89.6%
1	reason for not accessing health service	57	10.4%
Sysmiss		3312	

## AS202: reasons/difficulties for not accessing health services: no services/facility

Data file: tonga2017

### Overview

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		542	99.3%
1	reason for not accessing health service	4	0.7%
Sysmiss		3312	

## AS203: reasons/difficulties for not accessing health services: physical accessibility

Data file: tonga2017

### Overview

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		545	99.8%
1	reason for not accessing health service	1	0.2%
Sysmiss		3312	

## AS204: reasons/difficulties for not accessing health services: negative attitudes toward

Data file: tonga2017

### Overview

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		544	99.6%
1	reason for not accessing health service	2	0.4%
Sysmiss		3312	

## AS205: reasons/difficulties for not accessing health services: cost

Data file: tonga2017

### Overview

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		543	99.5%
1	reason for not accessing health service	3	0.5%
Sysmiss		3312	

## AS206: reasons/difficulties for not accessing health services: difficulty getting to se

Data file: tonga2017

### Overview

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		545	99.8%
1	reason for not accessing health service	1	0.2%
Sysmiss		3312	

**AS207: reasons/difficulties for not accessing health services: absence of personal assi****Data file: tonga2017****Overview**

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		535	98%
1	reason for not accessing health service	11	2%
Sysmiss		3312	

**AS210: reasons/difficulties for not accessing health services: healthy****Data file: tonga2017****Overview**

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		39	7.1%
1	reason for not accessing health service	507	92.9%
Sysmiss		3312	

**AS208: reasons/difficulties for not accessing health services: family did not want me t****Data file: tonga2017****Overview**

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		544	99.6%

1	reason for not accessing health service	2	0.4%
Sysmiss		3312	

## AS209: reasons/difficulties for not accessing health services: family has difficulty as

Data file: tonga2017

### Overview

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 39 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		542	99.3%
1	reason for not accessing health service	4	0.7%
Sysmiss		3312	

## MOST\_REASONS: which reason limited access the most

Data file: tonga2017

### Overview

Valid: 546 Invalid: 3312

Type: Discrete Decimal: 0 Width: 62 Range: 1 - 10 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Lack of information	25	4.6%
2	No services/facility	0	0%
3	Physical accessibility	1	0.2%
4	Negative attitudes towards you at the service/facility	9	1.6%
5	Cost of service/facility	1	0.2%
6	Difficulty getting to service/facility	2	0.4%
7	Absence of personal assistance	5	0.9%
8	Family did not want me to access services/facilities	4	0.7%
9	Family has difficulty assisting me to access services/facility	2	0.4%
10	Healthy	497	91%
Sysmiss		3312	

**M1: interviewer ID****Data file: tonga2017****Overview**

Valid: 2979   Invalid: 879   Minimum: 1   Maximum: 2554   Mean: 45.275   Standard deviation: 55.013  
Type: Continuous   Decimal: 0   Width: 10   Range: 1 - 2554   Format: Numeric

---

**M2: BP device ID****Data file: tonga2017****Overview**

Valid: 3733   Invalid: 125   Minimum: 1   Maximum: 54   Mean: 6.517   Standard deviation: 8.097  
Type: Continuous   Decimal: 0   Width: 10   Range: 1 - 54   Format: Numeric

---

**M4A: BP reading 1: systolic****Data file: tonga2017****Overview**

Valid: 3721   Invalid: 137   Minimum: 40   Maximum: 262   Mean: 135.887   Standard deviation: 20.782  
Type: Continuous   Decimal: 0   Width: 10   Range: 40 - 262   Format: Numeric

---

**M4B: BP reading 1: diastolic****Data file: tonga2017****Overview**

Valid: 3729   Invalid: 129   Minimum: 20   Maximum: 185   Mean: 85.541   Standard deviation: 14.091  
Type: Continuous   Decimal: 0   Width: 10   Range: 20 - 185   Format: Numeric

---

**M16A: heart rate reading 1****Data file: tonga2017****Overview**

Valid: 3727   Invalid: 131   Minimum: 33   Maximum: 177   Mean: 77.209   Standard deviation: 11.589  
Type: Continuous   Decimal: 0   Width: 10   Range: 33 - 177   Format: Numeric

---

**M5A: BP reading 2: systolic****Data file: tonga2017**

**Overview**

Valid: 3726 Invalid: 132 Minimum: 42 Maximum: 240 Mean: 132.256 Standard deviation: 19.634  
 Type: Continuous Decimal: 0 Width: 10 Range: 42 - 240 Format: Numeric

---

**M5B: BP reading 2: diastolic**

**Data file: tonga2017**

**Overview**

Valid: 3722 Invalid: 136 Minimum: 33 Maximum: 199 Mean: 83.857 Standard deviation: 13.448  
 Type: Continuous Decimal: 0 Width: 10 Range: 33 - 199 Format: Numeric

---

**M16B: heart rate reading 2**

**Data file: tonga2017**

**Overview**

Valid: 3729 Invalid: 129 Minimum: 6 Maximum: 180 Mean: 76.183 Standard deviation: 11.67  
 Type: Continuous Decimal: 0 Width: 10 Range: 6 - 180 Format: Numeric

---

**M6A: BP reading 3: systolic**

**Data file: tonga2017**

**Overview**

Valid: 3727 Invalid: 131 Minimum: 50 Maximum: 235 Mean: 130.231 Standard deviation: 18.908  
 Type: Continuous Decimal: 0 Width: 10 Range: 50 - 235 Format: Numeric

---

**M6B: BP reading 3: diastolic**

**Data file: tonga2017**

**Overview**

Valid: 3724 Invalid: 134 Minimum: 32 Maximum: 192 Mean: 82.716 Standard deviation: 13.146  
 Type: Continuous Decimal: 0 Width: 10 Range: 32 - 192 Format: Numeric

---

**M16C: heart rate reading 3**

**Data file: tonga2017**

**Overview**

Valid: 3727 Invalid: 131 Minimum: 22 Maximum: 780 Mean: 76.499 Standard deviation: 15.958  
 Type: Continuous Decimal: 0 Width: 10 Range: 22 - 780 Format: Numeric

---

**M7: took raised BP meds in past 2 weeks****Data file: tonga2017****Overview**

Valid: 3733 Invalid: 125

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	285	7.6%
2	No	3448	92.4%
Sysmiss		125	

**M8: pregnant****Data file: tonga2017****Overview**

Valid: 3780 Invalid: 78

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	83	2.2%
2	No	3697	97.8%
Sysmiss		78	

**M9: interviewer ID****Data file: tonga2017****Overview**

Valid: 2876 Invalid: 982 Minimum: 0 Maximum: 2554 Mean: 45.357 Standard deviation: 55.732

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 2554 Format: Numeric

**M10A: height device ID****Data file: tonga2017**

**Overview**

Valid: 3607   Invalid: 251   Minimum: 1   Maximum: 31   Mean: 4.325   Standard deviation: 7.098  
 Type: Continuous   Decimal: 0   Width: 10   Range: 1 - 31   Format: Numeric

---

**M10B: weight device ID**

**Data file: tonga2017**

**Overview**

Valid: 3610   Invalid: 248   Minimum: 0   Maximum: 24   Mean: 5.352   Standard deviation: 7.447  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 24   Format: Numeric

---

**M11: height (cm)**

**Data file: tonga2017**

**Overview**

Valid: 3606   Invalid: 252   Minimum: 102.1   Maximum: 197   Mean: 168.287   Standard deviation: 9.114  
 Type: Continuous   Decimal: 0   Width: 10   Range: 102.1 - 197   Format: Numeric

---

**M12: weight (kg)**

**Data file: tonga2017**

**Overview**

Valid: 3605   Invalid: 253   Minimum: 44.8   Maximum: 200.6   Mean: 100.168   Standard deviation: 21.187  
 Type: Continuous   Decimal: 0   Width: 10   Range: 44.8 - 200.6   Format: Numeric

---

**M13: waist circ device ID**

**Data file: tonga2017**

**Overview**

Valid: 3606   Invalid: 252   Minimum: 1   Maximum: 99   Mean: 7.866   Standard deviation: 9.848  
 Type: Continuous   Decimal: 0   Width: 10   Range: 1 - 99   Format: Numeric

---

**M14: waist circumference (cm)**

**Data file: tonga2017**

**Overview**

Valid: 3610   Invalid: 248   Minimum: -999999999   Maximum: 999   Mean: -276901.759   Standard deviation: 16643568.39  
 Type: Continuous   Decimal: 0   Width: 10   Range: -999999999 - 999   Format: Numeric

---

**M15: hip circumference (cm)****Data file: tonga2017****Overview**

Valid: 3610 Invalid: 248 Minimum: -999999999 Maximum: 999 Mean: -276890.831 Standard deviation: 16643568.572  
 Type: Continuous Decimal: 0 Width: 10 Range: -999999999 - 999 Format: Numeric

**B1: fasting for past 12 hrs****Data file: tonga2017****Overview**

Valid: 3717 Invalid: 141  
 Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	663	17.8%
2	No	3054	82.2%
Sysmiss		141	

**B2: blood measures technician ID****Data file: tonga2017****Overview**

Valid: 3693 Invalid: 165 Minimum: 1 Maximum: 95 Mean: 19.314 Standard deviation: 25.873  
 Type: Continuous Decimal: 0 Width: 10 Range: 1 - 95 Format: Numeric

**B3: gluc device ID****Data file: tonga2017****Overview**

Valid: 3714 Invalid: 144 Minimum: 2 Maximum: 72 Mean: 9.038 Standard deviation: 10.169  
 Type: Continuous Decimal: 0 Width: 10 Range: 2 - 72 Format: Numeric

**B4A: time blood sample taken (hours)****Data file: tonga2017**



**Overview**

Valid: 3677 Invalid: 181

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 21 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		8	0.2%
2		3	0.1%
3		4	0.1%
4		2	0.1%
5		12	0.3%
6		198	5.4%
7		965	26.2%
8		1224	33.3%
9		713	19.4%
10		245	6.7%
11		174	4.7%
12		70	1.9%
13		23	0.6%
14		5	0.1%
15		7	0.2%
16		3	0.1%
17		5	0.1%
18		5	0.1%
19		5	0.1%
20		3	0.1%
21		3	0.1%
Sysmiss		181	

**B4B: time blood sample taken (minutes)**

Data file: tonga2017

**Overview**

Valid: 2890 Invalid: 968 Minimum: 1 Maximum: 59 Mean: 28.712 Standard deviation: 15.523

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 59 Format: Numeric

**B6: took insulin today****Data file: tonga2017****Overview**

Valid: 3718 Invalid: 140

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	196	5.3%
2	No	3522	94.7%
Sysmiss		140	

**B7: chol device ID****Data file: tonga2017****Overview**

Valid: 3708 Invalid: 150 Minimum: 2 Maximum: 93 Mean: 9.965 Standard deviation: 12.37

Type: Continuous Decimal: 0 Width: 10 Range: 2 - 93 Format: Numeric

**B8: total cholesterol (mmol/l)****Data file: tonga2017****Overview**

Valid: 3712 Invalid: 146 Minimum: 2 Maximum: 41 Mean: 4.59 Standard deviation: 1.679

Type: Continuous Decimal: 0 Width: 10 Range: 2 - 41 Format: Numeric

**B9: chol meds taken in past 2 weeks****Data file: tonga2017****Overview**

Valid: 3721 Invalid: 137

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	127	3.4%
2	No	3594	96.6%

Sysmiss		137	
---------	--	-----	--

## B10: fasting prior to urine collection

Data file: tonga2017

### Overview

Valid: 1030 Invalid: 2828

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	0	0%
2	No	1030	100%
Sysmiss		2828	

## B11: urinary measures technician ID

Data file: tonga2017

### Overview

Valid: 1033 Invalid: 2825 Minimum: 2 Maximum: 99 Mean: 18.036 Standard deviation: 24.429

Type: Continuous Decimal: 0 Width: 10 Range: 2 - 99 Format: Numeric

## B12: urinary measures device ID

Data file: tonga2017

### Overview

Valid: 1025 Invalid: 2833 Minimum: 2 Maximum: 83 Mean: 11.116 Standard deviation: 12.515

Type: Continuous Decimal: 0 Width: 10 Range: 2 - 83 Format: Numeric

## B13A: time urine sample taken (hours)

Data file: tonga2017

### Overview

Valid: 807 Invalid: 3051 Minimum: 1 Maximum: 23 Mean: 12.477 Standard deviation: 4.816

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 23 Format: Numeric

**B13B: time urine sample taken (minutes)****Data file: tonga2017****Overview**

Valid: 395    Invalid: 3463    Minimum: 2    Maximum: 59    Mean: 27.023    Standard deviation: 13.836  
 Type: Continuous    Decimal: 0    Width: 10    Range: 2 - 59    Format: Numeric

**B14: urinary sodium (mg/dl)****Data file: tonga2017****Overview**

Valid: 843    Invalid: 3015    Minimum: 4    Maximum: 327    Mean: 98.122    Standard deviation: 56.522  
 Type: Continuous    Decimal: 0    Width: 10    Range: 4 - 327    Format: Numeric

**B15: urinary creatinine (mg/dl)****Data file: tonga2017****Overview**

Valid: 843    Invalid: 3015    Minimum: 0.8    Maximum: 54.6    Mean: 15.873    Standard deviation: 7.898  
 Type: Continuous    Decimal: 0    Width: 10    Range: 0.8 - 54.6    Format: Numeric

**AGERANGE: ageranges for which survey was designed****Data file: tonga2017****Overview**

Valid: 3858    Invalid: 0  
 Type: Discrete    Width: 5    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
18-29		865	22.4%
30-44		1487	38.5%
45-69		1506	39%

**WSTEP1: final analysis weight for step 1 variables (interview)****Data file: tonga2017****Overview**

Valid: 3858    Invalid: 0    Minimum: 0.995    Maximum: 410.003    Mean: 70.142    Standard deviation: 52.212  
 Type: Continuous    Decimal: 0    Width: 10    Range: 0.9952887 - 410.0029    Format: Numeric

**WSTEP2: final analysis weight for step 2 variables (physical measures)****Data file: tonga2017****Overview**

Valid: 3858   Invalid: 0   Minimum: 0.97   Maximum: 399.613   Mean: 68.364   Standard deviation: 50.889  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0.9700679 - 399.6134   Format: Numeric

**WSTEP3: final analysis weight for step 3 variables (biochemical measures)****Data file: tonga2017****Overview**

Valid: 3858   Invalid: 0   Minimum: 0.681   Maximum: 280.676   Mean: 48.017   Standard deviation: 35.743  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0.6813454 - 280.6759   Format: Numeric

**PSU: psu****Data file: tonga2017****Overview**

Valid: 3858   Invalid: 0   Minimum: 11   Maximum: 52   Mean: 18.293   Standard deviation: 9.239  
 Type: Continuous   Decimal: 0   Width: 10   Range: 11 - 52   Format: Numeric

**STRATUM: stratum****Data file: tonga2017****Overview**

Valid: 3858   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 10   Range: 1 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		3858	100%

# study\_resources

## questionnaires

### Questionnaire

---

title Questionnaire  
country Tonga  
filename STEPS\_Tonga\_2017\_Questionnaire.pdf

---

## reports

### Fact Sheet

---

title Fact Sheet  
country Tonga  
filename STEPS\_Tonga\_2017\_FactSheet.pdf

---

## technical\_documents

### Generic STEPS Questionnaire (version 3.1)

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title Generic STEPS Questionnaire (version 3.1)  
filename STEPS\_Instrument\_V3-1.pdf

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