

# STEPwise Survey for Non Communicable Diseases Risk Factor 2017

**Ministry of Health and Human Services**

report\_generated\_on: February 29, 2024

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

## Identification

SURVEY ID NUMBER  
MHL\_2017\_STEPS\_v01\_M

TITLE  
STEPwise Survey for Non Communicable Diseases Risk Factor 2017

COUNTRY

Name	Country code
Marshall Islands	MHL

STUDY TYPE  
Other Household Survey [hh/oth]

SERIES INFORMATION  
This is the second STEPS conducted by Marshall Islands.

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, lifestyle advice, and cervical cancer screening. Additionally, the following measures were taken: blood pressure, height, weight, fasting blood glucose and total cholesterol. Finally, the following optional modules were included: oral health, violence and injury and cervical cancer.

TOPICS

Topic	Vocabulary
STEPS	Survey

KEYWORDS

Keyword
noncommunicable diseases
risk factors
health surveys
tobacco use

alcohol use
diet
nutrition
salt
physical activity
blood pressure
cervical cancer
overweight
obesity
diabetes
hypertension
cardiovascular disease
blood glucose
cholesterol
oral health
violence and injury

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

### UNIVERSE

Adults aged 18 years and older

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name
Ministry of Health and Human Services

## Sampling

### SAMPLING PROCEDURE

Please refer to page 9 of report for further information.

### WEIGHTING

No weighting is available.

## data\_collection

### DATES OF DATA COLLECTION

Start	End
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2017-07

2018-04

## DATA COLLECTION MODE

Face-to-face [f2f]

## questionnaires

## QUESTIONNAIRES

This was a hybrid survey that combined some questions similar to or identical to the standard STEPS questions along with other questions. Only the STEPS and STEPS-like questions are included in the dataset provided here.

## 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\_MHL\_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
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## DATE OF METADATA PRODUCTION

2020-04-17

## DDI DOCUMENT VERSION

Identical to a metadata (MHL\_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**

<b>Data file</b>	<b>Cases</b>	<b>variables</b>
<b>mhl2017</b> National public-use dataset	3021	106



**Data file: mhl2017**

National public-use dataset

Cases: 3021

variables: 106

**variables**

ID	Name	Label	Question
V333	pid	participant ID - unique record ID	
V340	i6	interview language	
V341	c1	sex	
V342	c2b	date of birth: month	
V343	c2a	date of birth: day	
V344	c2c	date of birth: year	
V345	c3	reported age	
V346	age	age	
V347	c5	highest level of education	
V348	c6	ethnic group	
V349	c6other	specify other ethnic group	
V350	c7	marital status	
V351	c8	work status	
V352	c11	estimated household income (range)	
V353	t1	current smoking	
V354	xt2	number smoking occasions past 30 days	
V355	t3	age started smoking	
V356	t5a	manufactured cigs smoked per day	
V357	t5b	hand-rolled cigs smoked per day	
V358	t5c	pipes smoked per day	
V359	t5d	cigars smoked per day	
V360	t5f	other smoked per day	
V361	t5other	specify other product smoked	
V362	xt5	want to quit smoking	
V363	t6	stop smoking attempt in past 12 mos	
V364	xt7	received tobacco cessation assistance	
V365	t14c	Chewing tobacco times past 30 days	
V366	xt14electric	electronic cigarettes past 30 days	
V367	xt17	exposed to smoke in home past 30 days	
V368	xt18	exposed to smoke at work past 30 days	
V369	xt19	exposed to smoke in vehicle past 30 days	
V370	a2	drank alcohol in past 12 mos	
V371	a5	drank alcohol in past 30 days	
V372	a6	number drinking occasions past 30 days	
V373	a7	average number drinks per occasion past 30 days	
V374	xa1	age started drinking	
V375	xa9	times drank 5+ drinks (men)/4+ drinks (women) in single occasion past 30 days	



ID	Name	Label	Question
V376	xv9	driven after alcohol in past 30 days	
V377	xv10	in past 30 days ridden in vehicle with driver that had alcohol	
V378	d1	days fruit eaten per week	
V379	d2	servings fruit eaten per day	
V380	d3	days veg eaten per week	
V381	d4	servings veg eaten per day	
V382	xd9	importance lowering salt	
V383	xd11	currently watching or reducing salt intake	
V384	xp14	physical activity: days per week	
V385	p16a	sedentary time: hours per day	
V386	p16b	sedentary time: mins per day	
V387	h1	BP measured	
V388	h2a	told had high BP	
V389	h3	taken meds for high BP	
V390	h5	taking trad'l meds for high BP	
V391	h6	gluc measured	
V392	h7a	told had high gluc	
V393	h8	taken meds for high gluc	
V394	h9	taking insulin for high gluc	
V395	h11	taking trad'l meds for high gluc	
V396	h12	chol measured	
V397	h13a	told had high chol	
V398	h14	taken meds for high chol	
V399	h16	taking trad'l meds for high chol	
V400	xh17a	had coronary heart disease	
V401	xh17b	have angina	
V402	xh17c	had heart attack	
V403	xh17d	had stroke	
V404	xh17other	have heart condition/heart disease	
V405	o7	time since last dentist visit	
V406	xo1	number of permanent teeth lost	
V407	xc1	ever had mammogram	
V408	xc2	time since last mammogram	
V409	xc3	ever had clinical breast exam	
V410	xc4	time since last clinical breast exam	
V411	xc5	ever had pap test	
V412	xc6	time since last pap test	
V413	xc7	ever had colonoscopy	
V414	xc8	time since last colonoscopy	
V415	xc9	ever had blood stool test	
V416	xc10	time since last blood stool test	
V417	xc11	told had cancer	
V418	xc11type	type of cancer	
V419	m1	interviewer ID	
V420	m2	BP device ID	

ID	Name	Label	Question
V421	m3	cuff size	
V422	xm3arm	arm circumference (inches)	
V423	m4a	BP reading 1: systolic	
V424	m4b	BP reading 1: diastolic	
V425	m5a	BP reading 2: systolic	
V426	m5b	BP reading 2: diastolic	
V427	m6a	BP reading 3: systolic	
V428	m6b	BP reading 3: diastolic	
V429	xm17a	average systolic BP	
V430	xm17b	average diastolic BP	
V431	m7	took raised BP	
V432	xm8preg	pregnant	
V433	m10a	height device ID	
V434	m10b	weight device ID	
V435	m11	height (cm)	
V436	m12	weight (kg)	
V437	b1	fasting for past 12 hrs	
V438	b3	gluc device ID	
V439	b5	fasting blood glucose (mg/dl)	
V440	b6	took insulin today	
V441	b7	chol device ID	
V442	b8	total cholesterol (mg/dl)	
V443	b9	chol meds taken	
V444	agerange	agerange	

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total: 106



**PID: participant ID - unique record ID****Data file: mhl2017****Overview**

Valid: 3021   Invalid: 0   Minimum: 1   Maximum: 7713   Mean: 1427.791   Standard deviation: 1635.657  
 Type: Continuous   Decimal: 0   Width: 10   Range: 1 - 7713   Format: Numeric

**I6: interview language****Data file: mhl2017****Overview**

Valid: 3021   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 11   Range: 1 - 2   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	English	75	2.5%
2	Marshallese	2946	97.5%

**C1: sex****Data file: mhl2017****Overview**

Valid: 3021   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 10   Range: 1 - 2   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	male	1434	47.5%
2	female	1587	52.5%

**C2B: date of birth: month****Data file: mhl2017****Overview**

Valid: 3021   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 10   Range: 1 - 77   Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		245	8.1%
2		208	6.9%
3		243	8%
4		243	8%
5		269	8.9%
6		231	7.6%
7		255	8.4%
8		280	9.3%
9		272	9%
10		244	8.1%
11		244	8.1%
12		279	9.2%
77	Don't know	8	0.3%

### C2A: date of birth: day

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		75	2.5%
2		103	3.4%
3		90	3%
4		78	2.6%
5		104	3.4%
6		113	3.7%
7		90	3%
8		85	2.8%
9		115	3.8%
10		109	3.6%

11		109	3.6%
12		103	3.4%
13		88	2.9%
14		92	3%
15		93	3.1%
16		103	3.4%
17		105	3.5%
18		125	4.1%
19		97	3.2%
20		83	2.7%
21		93	3.1%
22		94	3.1%
23		102	3.4%
24		103	3.4%
25		115	3.8%
26		101	3.3%
27		110	3.6%
28		100	3.3%
29		101	3.3%
30		77	2.5%
31		57	1.9%
77	Don't know	8	0.3%

## C2C: date of birth: year

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1930 - 7777 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1930		1	0%
1933		1	0%
1934		1	0%
1935		1	0%
1936		1	0%

1937		4	0.1%
1938		3	0.1%
1939		3	0.1%
1940		1	0%
1941		1	0%
1942		5	0.2%
1943		2	0.1%
1944		5	0.2%
1945		4	0.1%
1946		11	0.4%
1947		12	0.4%
1948		15	0.5%
1949		15	0.5%
1950		22	0.7%
1951		14	0.5%
1952		34	1.1%
1953		26	0.9%
1954		37	1.2%
1955		20	0.7%
1956		19	0.6%
1957		34	1.1%
1958		26	0.9%
1959		30	1%
1960		39	1.3%
1961		43	1.4%
1962		47	1.6%
1963		46	1.5%
1964		49	1.6%
1965		43	1.4%
1966		55	1.8%
1967		54	1.8%
1968		56	1.9%
1969		62	2.1%
1970		60	2%
1971		38	1.3%
1972		60	2%
1973		60	2%
1974		72	2.4%
1975		73	2.4%

1976		64	2.1%
1977		61	2%
1978		59	2%
1979		76	2.5%
1980		87	2.9%
1981		98	3.2%
1982		94	3.1%
1983		79	2.6%
1984		86	2.8%
1985		96	3.2%
1986		76	2.5%
1987		92	3%
1988		75	2.5%
1989		78	2.6%
1990		72	2.4%
1991		71	2.4%
1992		71	2.4%
1993		58	1.9%
1994		56	1.9%
1995		66	2.2%
1996		64	2.1%
1997		71	2.4%
1998		61	2%
1999		88	2.9%
2000		9	0.3%
7777	don't know	8	0.3%

**C3: reported age****Data file:** mhl2017**Overview**

Valid: 8    Invalid: 3013

Type: Discrete    Decimal: 0    Width: 10    Range: 34 - 77    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
34		1	12.5%



35		1	12.5%
42		1	12.5%
45		1	12.5%
74		1	12.5%
77	Don't know	3	37.5%
Sysmiss		3013	

**AGE: age****Data file: mhl2017****Overview**

Valid: 3003   Invalid: 18   Minimum: 17.046   Maximum: 86.631   Mean: 39.562   Standard deviation: 13.874  
 Type: Continuous   Decimal: 0   Width: 9   Range: 17.0458583831787 - 86.6310729980469   Format: Numeric

**C5: highest level of education****Data file: mhl2017****Overview**

Valid: 3021   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 46   Range: 1 - 99   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	never attended school	21	0.7%
2	primary school (elementary) completed	189	6.3%
3	middle school completed	560	18.5%
4	high school completed	1679	55.6%
5	vocational/technical training school completed	69	2.3%
6	college or university completed	495	16.4%
99	refused	8	0.3%

**C6: ethnic group****Data file: mhl2017****Overview**

Valid: 3021   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 11   Range: 1 - 99   Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Marshallese	2931	97%
2	other	85	2.8%
99	refused	5	0.2%

### C60THER: specify other ethnic group

Data file: mhl2017

### Overview

Valid: 85 Invalid: 0

Type: Discrete Width: 30 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
America		1	1.2%
American		3	3.5%
Asian American		1	1.2%
Australia		1	1.2%
Caucasian		1	1.2%
Caucasian USA		1	1.2%
Chinese		1	1.2%
Chuuk		1	1.2%
Chuukese		1	1.2%
English		1	1.2%
Fiji		4	4.7%
Fijian		2	2.4%
Filipino		6	7.1%
Fillpino		1	1.2%
Half Marshallese,Half Kiribati		1	1.2%
Half kiribati		1	1.2%
Hawaiian, Filipino		1	1.2%
Idhyopia		1	1.2%
Ikiribati		1	1.2%
Indian		1	1.2%

Japan		1	1.2%
Japanese,German,Kiribati		1	1.2%
Japanese,Marshallese		1	1.2%
Kirbit		3	3.5%
Kiribat		5	5.9%
Kiribati		11	12.9%
Kiribati's		1	1.2%
Kiribati,		1	1.2%
Kiribatis		1	1.2%
Kiribit		2	2.4%
Kosrae		3	3.5%
Norwigian		1	1.2%
Palau		1	1.2%
Philiphine		1	1.2%
Philipino		2	2.4%
Philippine		1	1.2%
Philippines		2	2.4%
Phillipine		3	3.5%
Phillipino		3	3.5%
Phillipne		1	1.2%
Phlippino		1	1.2%
Pohnipe		1	1.2%
Pohnpei		1	1.2%
Tokelau, Kiribati		1	1.2%
Tuvalu		4	4.7%
Tuvaluan		1	1.2%

## C7: marital status

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 31 Range: 1 - 99 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	single, never married	840	27.8%

2	married or domestic partnership	2033	67.3%
3	widowed	118	3.9%
5	divorced/separated	18	0.6%
99	refused	12	0.4%

## C8: work status

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 27 Range: 1 - 99 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Government employee	602	19.9%
2	Non-government employee	503	16.7%
3	Self-employed	423	14%
4	Non-paid	41	1.4%
5	Student	169	5.6%
6	Homemaker	472	15.6%
7	Retired	121	4%
8	Unemployed (able to work)	534	17.7%
9	Unemployed (unable to work)	130	4.3%
99	Refused	26	0.9%

## C11: estimated household income (range)

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 21 Range: 1 - 99 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Less than \$5,000	648	21.4%
2	\$5,000 and - \$9,999	494	16.4%

3	\$10,000 and - \$14,999	213	7.1%
4	\$15,000 and - \$19,999	126	4.2%
5	\$20,000 or greater	153	5.1%
77	Don't Know	1211	40.1%
99	Refused	176	5.8%

## T1: current smoking

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 22 Range: 1 - 99 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	yes-cigarettes	721	23.9%
2	yes-cigars	2	0.1%
3	yes-pipes	4	0.1%
4	yes-more than one type	3	0.1%
5	no	2265	75%
77	don't know	14	0.5%
99	refused	12	0.4%

## XT2: number smoking occasions past 30 days

Data file: mhl2017

### Overview

Valid: 730 Invalid: 2291

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		28	3.8%
1		12	1.6%
2		7	1%
3		8	1.1%

4		3	0.4%
5		6	0.8%
6		3	0.4%
7		33	4.5%
8		1	0.1%
9		1	0.1%
10		3	0.4%
12		4	0.5%
14		3	0.4%
15		11	1.5%
16		1	0.1%
20		6	0.8%
23		1	0.1%
25		7	1%
26		1	0.1%
28		2	0.3%
30		568	77.8%
77	Don't know	18	2.5%
99	Missing	3	0.4%
Sysmiss		2291	

### T3: age started smoking

Data file: mhl2017

#### Overview

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 8 - 77 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
8		2	0.3%
9		3	0.4%
10		5	0.7%
11		7	1%
12		17	2.5%
13		24	3.5%
14		18	2.6%

15		53	7.8%
16		70	10.3%
17		82	12%
18		123	18.1%
19		62	9.1%
20		49	7.2%
21		33	4.8%
22		20	2.9%
23		6	0.9%
24		9	1.3%
25		17	2.5%
26		9	1.3%
27		9	1.3%
28		3	0.4%
29		4	0.6%
30		9	1.3%
31		1	0.1%
32		3	0.4%
33		1	0.1%
34		2	0.3%
35		4	0.6%
37		1	0.1%
38		1	0.1%
39		3	0.4%
40		5	0.7%
41		1	0.1%
42		1	0.1%
45		2	0.3%
47		1	0.1%
55		1	0.1%
60		1	0.1%
77	Don't know	19	2.8%
Sysmiss		2340	

## T5A: manufactured cigs smoked per day

Data file: mhl2017

### Overview

Valid: 681    Invalid: 2340

Type: Discrete    Decimal: 0    Width: 10    Range: 0 - 777    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		57	8.4%
1		239	35.1%
2		30	4.4%
3		27	4%
4		21	3.1%
5		22	3.2%
6		14	2.1%
7		12	1.8%
8		10	1.5%
9		2	0.3%
10		31	4.6%
11		1	0.1%
12		17	2.5%
13		2	0.3%
15		9	1.3%
16		1	0.1%
18		5	0.7%
20		70	10.3%
21		3	0.4%
23		2	0.3%
24		1	0.1%
25		7	1%
30		43	6.3%
32		1	0.1%
40		6	0.9%
60		3	0.4%
77	Don't know	41	6%
99		3	0.4%
777	Don't know	1	0.1%
Sysmiss		2340	

**T5B: hand-rolled cigs smoked per day**

Data file: mhl2017



**Overview**

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 7777 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		488	71.7%
1		19	2.8%
2		10	1.5%
3		1	0.1%
4		4	0.6%
5		4	0.6%
12		3	0.4%
74		1	0.1%
77	Don't know	135	19.8%
99		14	2.1%
777	Don't know	1	0.1%
7777	Don't know	1	0.1%
Sysmiss		2340	

**T5C: pipes smoked per day**

Data file: mhl2017

**Overview**

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 7777 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		489	71.8%
1		24	3.5%
2		8	1.2%
3		1	0.1%
5		1	0.1%
6		1	0.1%
30		1	0.1%

74		1	0.1%
77	Don't know	138	20.3%
99		15	2.2%
777	Don't know	1	0.1%
7777	Don't know	1	0.1%
Sysmiss		2340	

## T5D: cigars smoked per day

Data file: mhl2017

### Overview

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 7777 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		484	71.1%
1		28	4.1%
2		8	1.2%
3		4	0.6%
4		1	0.1%
7		1	0.1%
20		2	0.3%
74		3	0.4%
77	Don't know	130	19.1%
99		15	2.2%
777	Don't know	3	0.4%
7777	Don't know	2	0.3%
Sysmiss		2340	

## T5F: other smoked per day

Data file: mhl2017

### Overview

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 0 - 7777 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		481	70.6%
1		28	4.1%
2		1	0.1%
10		1	0.1%
77	Don't know	149	21.9%
99		19	2.8%
777	Don't know	1	0.1%
7777	Don't know	1	0.1%
Sysmiss		2340	

### T5OTHER: specify other product smoked

Data file: mhl2017

#### Overview

Valid: 675 Invalid: 0

Type: Discrete Width: 23 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		88	13%
1		11	1.6%
10 PCs.		1	0.1%
2		3	0.4%
20pcs.		1	0.1%
77		8	1.2%
777		1	0.1%
99		7	1%
Cigar only		1	0.1%
Cigarette		2	0.3%
Cir		1	0.1%
Decade		2	0.3%
E- cigarette		1	0.1%
Ebar ejjelok		2	0.3%

Ejelok		1	0.1%
Ejjelok		3	0.4%
Gia		1	0.1%
Malboro		1	0.1%
Manufactured cigarettes		1	0.1%
Marlpolo,Kool,USA		1	0.1%
N\A		2	0.3%
Na		1	0.1%
No		4	0.6%
No comment		1	0.1%
No comments		1	0.1%
Non		6	0.9%
None		441	65.3%
Not sure		1	0.1%
Nothing		3	0.4%
O		2	0.3%
Tabak		1	0.1%
US		1	0.1%
USA		72	10.7%
Usa		1	0.1%
Zero		1	0.1%

## XT5: want to quit smoking

Data file: mhl2017

### Overview

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	504	74%
2	No	164	24.1%
77	Don't know	11	1.6%
99	Refuse	2	0.3%
Sysmiss		2340	

**T6: stop smoking attempt in past 12 mos****Data file: mhl2017****Overview**

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	368	54%
2	No	311	45.7%
77	Don't know	2	0.3%
Sysmiss		2340	

**XT7: received tobacco cessation assistance****Data file: mhl2017****Overview**

Valid: 681 Invalid: 2340

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	29	4.3%
2	No	635	93.2%
77	Don't know	15	2.2%
99	Refuse	2	0.3%
Sysmiss		2340	

**T14C: Chewing tobacco times past 30 days****Data file: mhl2017****Overview**

Valid: 3021 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		2312	76.5%
1		30	1%
2		8	0.3%
3		15	0.5%
4		8	0.3%
5		5	0.2%
6		5	0.2%
7		18	0.6%
8		1	0%
10		6	0.2%
12		7	0.2%
13		1	0%
14		1	0%
15		14	0.5%
20		1	0%
22		1	0%
25		6	0.2%
30		206	6.8%
77	Don't know	335	11.1%
99	Missing	41	1.4%

### XT14ELECTRIC: electronic cigarettes past 30 days

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		2473	81.9%
1		9	0.3%
2		7	0.2%

3		5	0.2%
4		1	0%
5		4	0.1%
7		4	0.1%
10		1	0%
14		2	0.1%
15		4	0.1%
20		1	0%
24		1	0%
25		5	0.2%
26		1	0%
30		111	3.7%
77	Don't know	346	11.5%
99	Missing	46	1.5%

### XT17: exposed to smoke in home past 30 days

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

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

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2252	74.5%
1		116	3.8%
2		61	2%
3		25	0.8%
4		11	0.4%
5		10	0.3%
6		1	0%
7		12	0.4%
8		3	0.1%
10		3	0.1%
11		1	0%
12		2	0.1%
14		2	0.1%

15		9	0.3%
20		5	0.2%
23		1	0%
25		2	0.1%
30		152	5%
77	Don't know	317	10.5%
99	Missing	36	1.2%

## XT18: exposed to smoke at work past 30 days

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2384	78.9%
1		37	1.2%
2		21	0.7%
3		16	0.5%
4		4	0.1%
5		6	0.2%
6		3	0.1%
7		11	0.4%
8		4	0.1%
9		2	0.1%
10		6	0.2%
12		4	0.1%
15		7	0.2%
20		10	0.3%
24		1	0%
25		2	0.1%
26		3	0.1%
28		1	0%
30		136	4.5%
77	Don't know	326	10.8%



99	Missing	37	1.2%
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## XT19: exposed to smoke in vehicle past 30 days

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2153	71.3%
1		140	4.6%
2		102	3.4%
3		68	2.3%
4		24	0.8%
5		38	1.3%
6		8	0.3%
7		17	0.6%
8		6	0.2%
9		1	0%
10		10	0.3%
12		3	0.1%
14		1	0%
15		22	0.7%
17		1	0%
18		1	0%
20		8	0.3%
25		5	0.2%
28		1	0%
29		1	0%
30		83	2.7%
77	Don't know	296	9.8%
99	Missing	32	1.1%

**A2: drank alcohol in past 12 mos****Data file:** mhl2017**Overview**

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	774	25.6%
2	No	2228	73.8%
77	Don't know	10	0.3%
99	Refuse	9	0.3%

**A5: drank alcohol in past 30 days****Data file:** mhl2017**Overview**

Valid: 774 Invalid: 2247

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	520	67.2%
2	No	253	32.7%
77	Don't know	1	0.1%
Sysmiss		2247	

**A6: number drinking occasions past 30 days****Data file:** mhl2017**Overview**

Valid: 520 Invalid: 2501

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		110	21.2%
2		83	16%
3		40	7.7%
4		72	13.8%
5		27	5.2%
6		30	5.8%
7		22	4.2%
8		34	6.5%
9		2	0.4%
10		11	2.1%
12		17	3.3%
13		1	0.2%
14		2	0.4%
15		15	2.9%
16		3	0.6%
20		3	0.6%
21		1	0.2%
22		1	0.2%
24		2	0.4%
25		4	0.8%
26		1	0.2%
28		1	0.2%
30		27	5.2%
77	Don't know	11	2.1%
Sysmiss		2501	

## A7: average number drinks per occasion past 30 days

Data file: mhl2017

### Overview

Valid: 520 Invalid: 2501

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		124	23.8%

2		97	18.7%
3		39	7.5%
4		29	5.6%
5		34	6.5%
6		52	10%
7		8	1.5%
8		15	2.9%
9		3	0.6%
10		13	2.5%
12		53	10.2%
13		1	0.2%
14		1	0.2%
15		5	1%
16		1	0.2%
17		8	1.5%
18		2	0.4%
20		5	1%
21		1	0.2%
23		2	0.4%
24		8	1.5%
25		1	0.2%
30		4	0.8%
34		2	0.4%
48		1	0.2%
77	Don't know	11	2.1%
Sysmiss		2501	

**XA1: age started drinking****Data file:** mhl2017**Overview**

Valid: 520 Invalid: 2501

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		1	0.2%

2		2	0.4%
4		1	0.2%
8		2	0.4%
10		1	0.2%
11		2	0.4%
12		5	1%
13		12	2.3%
14		11	2.1%
15		35	6.7%
16		58	11.2%
17		63	12.1%
18		116	22.3%
19		44	8.5%
20		44	8.5%
21		35	6.7%
22		15	2.9%
23		8	1.5%
24		10	1.9%
25		15	2.9%
26		5	1%
27		2	0.4%
28		5	1%
29		1	0.2%
30		9	1.7%
32		4	0.8%
35		2	0.4%
36		2	0.4%
39		1	0.2%
40		1	0.2%
50		1	0.2%
77	Don't know	7	1.3%
Sysmiss		2501	

**XA9: times drank 5+ drinks (men)/4+ drinks (women) in single occasion past 30 days****Data file: mhl2017****Overview**

Valid: 520 Invalid: 2501

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		34	6.5%
1		54	10.4%
2		54	10.4%
3		20	3.8%
4		65	12.5%
5		104	20%
6		69	13.3%
7		21	4%
8		17	3.3%
9		1	0.2%
10		12	2.3%
12		30	5.8%
13		1	0.2%
15		3	0.6%
16		1	0.2%
18		2	0.4%
20		4	0.8%
21		1	0.2%
24		3	0.6%
28		1	0.2%
30		11	2.1%
77	Don't know	11	2.1%
99	Missing	1	0.2%
Sysmiss		2501	

### XV9: driven after alcohol in past 30 days

Data file: mhl2017

#### Overview

Valid: 520 Invalid: 2501

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		403	77.5%
1		25	4.8%
2		21	4%
3		4	0.8%
4		8	1.5%
5		10	1.9%
6		1	0.2%
7		3	0.6%
8		3	0.6%
10		1	0.2%
15		2	0.4%
18		1	0.2%
20		1	0.2%
30		8	1.5%
77	Don't know	26	5%
99	Missing	3	0.6%
Sysmiss		2501	

### XV10: in past 30 days ridden in vehicle with driver that had alcohol

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

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

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2387	79%
1		145	4.8%
2		52	1.7%
3		36	1.2%
4		10	0.3%
5		27	0.9%
6		6	0.2%
7		5	0.2%
8		6	0.2%

10		2	0.1%
12		5	0.2%
13		1	0%
15		5	0.2%
20		2	0.1%
22		1	0%
25		1	0%
30		14	0.5%
77	Don't know	277	9.2%
99	Missing	39	1.3%

### D1: days fruit eaten per week

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

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

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		293	9.7%
1		864	28.6%
2		664	22%
3		483	16%
4		109	3.6%
5		60	2%
6		12	0.4%
7		428	14.2%
77	Don't know	100	3.3%
99	Missing	8	0.3%

### D2: servings fruit eaten per day

Data file: mhl2017

#### Overview

Valid: 2620 Invalid: 401

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		1432	54.7%
2		736	28.1%
3		289	11%
4		69	2.6%
5		32	1.2%
6		12	0.5%
7		10	0.4%
8		4	0.2%
10		4	0.2%
12		2	0.1%
15		3	0.1%
20		1	0%
77	Don't know	25	1%
99	Missing	1	0%
Sysmiss		401	

### D3: days veg eaten per week

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		395	13.1%
1		727	24.1%
2		537	17.8%
3		459	15.2%
4		118	3.9%
5		103	3.4%
6		16	0.5%
7		546	18.1%

77	Don't know	109	3.6%
99	Missing	11	0.4%

#### D4: servings veg eaten per day

Data file: mhl2017

##### Overview

Valid: 2506 Invalid: 515

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

##### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		9	0.4%
1		1173	46.8%
2		832	33.2%
3		330	13.2%
4		91	3.6%
5		23	0.9%
6		5	0.2%
7		9	0.4%
8		3	0.1%
10		2	0.1%
11		1	0%
14		1	0%
24		1	0%
77	Don't know	22	0.9%
99	Missing	4	0.2%
Sysmiss		515	

#### XD9: importance lowering salt

Data file: mhl2017

##### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 20 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	very important	1854	61.4%
2	somewhat important	817	27%
3	not at all important	314	10.4%
77	don't know	24	0.8%
99	refused	12	0.4%

### XD11: currently watching or reducing salt intake

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	2424	80.2%
2	No	560	18.5%
77	Don't know	25	0.8%
99	Refuse	12	0.4%

### XP14: physical activity: days per week

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		884	29.3%
1		180	6%
2		114	3.8%

3		63	2.1%
4		60	2%
5		47	1.6%
6		24	0.8%
7		90	3%
8		20	0.7%
9		3	0.1%
10		34	1.1%
11		1	0%
12		42	1.4%
13		1	0%
14		18	0.6%
15		92	3%
16		5	0.2%
17		1	0%
18		4	0.1%
19		1	0%
20		40	1.3%
21		1	0%
23		1	0%
24		11	0.4%
25		32	1.1%
26		30	1%
27		3	0.1%
28		7	0.2%
29		1	0%
30		1067	35.3%
77	Don't know	125	4.1%
99	Missing	19	0.6%

## P16A: sedentary time: hours per day

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

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

### Questions and instructions

CATEGORIES

Value	Category	Cases	
0		564	18.7%
1		720	23.8%
2		369	12.2%
3		246	8.1%
4		145	4.8%
5		171	5.7%
6		87	2.9%
7		36	1.2%
8		206	6.8%
9		15	0.5%
10		44	1.5%
11		5	0.2%
12		52	1.7%
13		28	0.9%
14		2	0.1%
15		1	0%
16		9	0.3%
77	Don't know	315	10.4%
99	Missing	6	0.2%

## P16B: sedentary time: mins per day

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		1670	55.3%
1		7	0.2%
2		8	0.3%
3		12	0.4%
4		4	0.1%
5		24	0.8%
7		3	0.1%

8		3	0.1%
10		14	0.5%
12		3	0.1%
15		68	2.3%
20		46	1.5%
25		29	1%
30		669	22.1%
32		1	0%
35		33	1.1%
38		4	0.1%
40		12	0.4%
45		41	1.4%
47		1	0%
50		10	0.3%
53		3	0.1%
55		1	0%
56		3	0.1%
60		6	0.2%
77	Don't know	336	11.1%
99	Missing	10	0.3%

## H1: BP measured

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	1612	53.4%
2	No	1390	46%
77	Don't know	15	0.5%
99	Refuse	4	0.1%

**H2A: told had high BP****Data file:** mhl2017**Overview**

Valid: 1612 Invalid: 1409

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	345	21.4%
2	No	1248	77.4%
77	Don't know	18	1.1%
99	Refuse	1	0.1%
Sysmiss		1409	

**H3: taken meds for high BP****Data file:** mhl2017**Overview**

Valid: 345 Invalid: 2676

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	136	39.4%
2	No	207	60%
77	Don't know	2	0.6%
Sysmiss		2676	

**H5: taking trad'l meds for high BP****Data file:** mhl2017**Overview**

Valid: 345 Invalid: 2676

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	103	29.9%
2	No	240	69.6%
77	Don't know	2	0.6%
Sysmiss		2676	

### H6: gluc measured

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	1585	52.5%
2	No	1417	46.9%
77	Don't know	15	0.5%
99	Refuse	4	0.1%

### H7A: told had high gluc

Data file: mhl2017

#### Overview

Valid: 1585 Invalid: 1436

Type: Discrete Decimal: 0 Width: 42 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	yes	365	23%
2	yes, but female told only during pregnancy	31	2%
3	no	1080	68.1%
4	no, pre-diabetes or borderline diabetes	90	5.7%



77	don't know	19	1.2%
99	refused	0	0%
Sysmiss		1436	

## H8: taken meds for high gluc

Data file: mhl2017

### Overview

Valid: 365 Invalid: 2656

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	158	43.3%
2	No	206	56.4%
77	Don't know	1	0.3%
Sysmiss		2656	

## H9: taking insulin for high gluc

Data file: mhl2017

### Overview

Valid: 365 Invalid: 2656

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	106	29%
2	No	259	71%
Sysmiss		2656	

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

Data file: mhl2017

### Overview

Valid: 365 Invalid: 2656

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	147	40.3%
2	No	218	59.7%
Sysmiss		2656	

## H12: chol measured

Data file: mhl2017

### Overview

Valid: 3021    Invalid: 0

Type: Discrete    Decimal: 0    Width: 10    Range: 1 - 99    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	608	20.1%
2	No	2361	78.2%
77	Don't know	48	1.6%
99	Refuse	4	0.1%

## H13A: told had high chol

Data file: mhl2017

### Overview

Valid: 608    Invalid: 2413

Type: Discrete    Decimal: 0    Width: 10    Range: 1 - 99    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	143	23.5%
2	No	460	75.7%
77	Don't know	4	0.7%
99	Refuse	1	0.2%

Sysmiss		2413	
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## H14: taken meds for high chol

Data file: mhl2017

### Overview

Valid: 143 Invalid: 2878

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	58	40.6%
2	No	83	58%
77	Don't know	2	1.4%
Sysmiss		2878	

## H16: taking trad'l meds for high chol

Data file: mhl2017

### Overview

Valid: 143 Invalid: 2878

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 77 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	41	28.7%
2	No	101	70.6%
77	Don't know	1	0.7%
Sysmiss		2878	

## XH17A: had coronary heart disease

Data file: mhl2017

### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	61	2%
2	No	2905	96.2%
77	Don't know	49	1.6%
99	Refuse	6	0.2%

### XH17B: have angina

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	14	0.5%
2	No	2926	96.9%
77	Don't know	76	2.5%
99	Refuse	5	0.2%

### XH17C: had heart attack

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	18	0.6%
2	No	2940	97.3%
77	Don't know	57	1.9%
99	Refuse	6	0.2%

**XH17D: had stroke****Data file:** mhl2017**Overview**

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	18	0.6%
2	No	2929	97%
77	Don't know	69	2.3%
99	Refuse	5	0.2%

**XH17OTHER: have heart condition/heart disease****Data file:** mhl2017**Overview**

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	77	2.5%
2	No	2882	95.4%
77	Don't know	57	1.9%
99	Refuse	5	0.2%

**O7: time since last dentist visit****Data file:** mhl2017**Overview**

Valid: 3021 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	within the past year	1084	35.9%
2	within the past 2 years	290	9.6%
3	within the past 3 years	157	5.2%
4	within the past 5 years	104	3.4%
5	5 or more years ago	266	8.8%
77	don't know	135	4.5%
88	never	976	32.3%
99	refused	9	0.3%

### XO1: number of permanent teeth lost

Data file: mhl2017

#### Overview

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 21 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	1 to 5	1965	65%
2	6 or more but not all	296	9.8%
3	all	47	1.6%
4	none	607	20.1%
77	don't know	82	2.7%
99	refused	24	0.8%

### XC1: ever had mammogram

Data file: mhl2017

#### Overview

Valid: 1587 Invalid: 1434

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	286	18%
2	No	1279	80.6%
77	Don't know	19	1.2%
99	Refuse	3	0.2%
Sysmiss		1434	

### XC2: time since last mammogram

Data file: mhl2017

#### Overview

Valid: 286 Invalid: 2735

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	within the past year	176	61.5%
2	within the past 2 years	46	16.1%
3	within the past 3 years	19	6.6%
4	within the past 5 years	19	6.6%
5	5 or more years ago	20	7%
77	don't know	6	2.1%
99	refused	0	0%
Sysmiss		2735	

### XC3: ever had clinical breast exam

Data file: mhl2017

#### Overview

Valid: 1587 Invalid: 1434

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	368	23.2%
2	No	1201	75.7%
77	Don't know	15	0.9%
99	Refuse	3	0.2%
Sysmiss		1434	

#### XC4: time since last clinical breast exam

Data file: mhl2017

##### Overview

Valid: 368 Invalid: 2653

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

##### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	within the past year	220	59.8%
2	within the past 2 years	64	17.4%
3	within the past 3 years	16	4.3%
4	within the past 5 years	19	5.2%
5	5 or more years ago	43	11.7%
77	don't know	6	1.6%
99	refused	0	0%
Sysmiss		2653	

#### XC5: ever had pap test

Data file: mhl2017

##### Overview

Valid: 1587 Invalid: 1434

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

##### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	Yes	663	41.8%
2	No	898	56.6%



77	Don't know	22	1.4%
99	Refuse	4	0.3%
Sysmiss		1434	

**XC6: time since last pap test****Data file:** mhl2017**Overview**

Valid: 663    Invalid: 2358

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	within the past year	271	40.9%
2	within the past 2 years	135	20.4%
3	within the past 3 years	63	9.5%
4	within the past 5 years	53	8%
5	5 or more years ago	124	18.7%
77	don't know	17	2.6%
99	refused	0	0%
Sysmiss		2358	

**XC7: ever had colonoscopy****Data file:** mhl2017**Overview**

Valid: 3021    Invalid: 0

Type: Discrete    Decimal: 0    Width: 10    Range: 1 - 99    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	121	4%
2	No	2856	94.5%
77	Don't know	26	0.9%
99	Refuse	18	0.6%

**XC8: time since last colonoscopy****Data file:** mhl2017**Overview**

Valid: 121    Invalid: 2900

Type: Discrete    Decimal: 0    Width: 61    Range: 1 - 99    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Within the past year (anytime less than 12 months ago)	64	52.9%
2	Within the past 2 years (1 year but less than 2 years ago)	21	17.4%
3	Within the past 3 years (2 years but less than 3 years ago)	9	7.4%
4	Within the past 5 years (3 years but less than 5 years ago)	14	11.6%
5	Within the past 10 years (5 years but less than 10 years ago)	7	5.8%
6	10 or more years ago	3	2.5%
77	Don't know	3	2.5%
99	Refused	0	0%
Sysmiss		2900	

**XC9: ever had blood stool test****Data file:** mhl2017**Overview**

Valid: 3021    Invalid: 0

Type: Discrete    Decimal: 0    Width: 10    Range: 1 - 99    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	1103	36.5%
2	No	1880	62.2%
77	Don't know	23	0.8%
99	Refuse	15	0.5%

**XC10: time since last blood stool test****Data file:** mhl2017

**Overview**

Valid: 1103 Invalid: 1918

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	within the past year	551	50%
2	within the past 2 years	225	20.4%
3	within the past 3 years	108	9.8%
4	within the past 5 years	72	6.5%
5	5 or more years ago	114	10.3%
77	don't know	31	2.8%
99	refused	2	0.2%
Sysmiss		1918	

**XC11: told had cancer**

Data file: mhl2017

**Overview**

Valid: 3021 Invalid: 0

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	17	0.6%
2	No	2897	95.9%
77	Don't know	101	3.3%
99	Refuse	6	0.2%

**XC11TYPE: type of cancer**

Data file: mhl2017

**Overview**

Valid: 17 Invalid: 3004

Type: Discrete Decimal: 0 Width: 28 Range: 27 - 77 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
27	lip, oral cavity and pharynx	1	5.9%
29	stomach	4	23.5%
35	skin	1	5.9%
36	breast	3	17.6%
37	cervix uteri	2	11.8%
39	ovary	1	5.9%
77	don't know	5	29.4%
Sysmiss		3004	

### M1: interviewer ID

Data file: mhl2017

#### Overview

Valid: 2909 Invalid: 112 Minimum: 1 Maximum: 999 Mean: 30.507 Standard deviation: 83.549  
Type: Continuous Decimal: 0 Width: 10 Range: 1 - 999 Format: Numeric

### M2: BP device ID

Data file: mhl2017

#### Overview

Valid: 2909 Invalid: 112 Minimum: 1 Maximum: 999 Mean: 19.223 Standard deviation: 113.032  
Type: Continuous Decimal: 0 Width: 10 Range: 1 - 999 Format: Numeric

### M3: cuff size

Data file: mhl2017

#### Overview

Valid: 2909 Invalid: 112  
Type: Discrete Decimal: 0 Width: 13 Range: 1 - 5 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Small	61	2.1%
2	Medium	1803	62%

3	Large	984	33.8%
4	extra large	30	1%
5	no cuffs used	31	1.1%
Sysmiss		112	

### **XM3ARM: arm circumference (inches)**

**Data file:** mhl2017

#### **Overview**

Valid: 2909   Invalid: 112   Minimum: 2   Maximum: 999   Mean: 76.552   Standard deviation: 195.291  
 Type: Continuous   Decimal: 0   Width: 10   Range: 2 - 999   Format: Numeric

### **M4A: BP reading 1: systolic**

**Data file:** mhl2017

#### **Overview**

Valid: 2909   Invalid: 112   Minimum: 48   Maximum: 999   Mean: 129.239   Standard deviation: 80.715  
 Type: Continuous   Decimal: 0   Width: 10   Range: 48 - 999   Format: Numeric

### **M4B: BP reading 1: diastolic**

**Data file:** mhl2017

#### **Overview**

Valid: 2909   Invalid: 112   Minimum: 30   Maximum: 999   Mean: 83.701   Standard deviation: 83.501  
 Type: Continuous   Decimal: 0   Width: 10   Range: 30 - 999   Format: Numeric

### **M5A: BP reading 2: systolic**

**Data file:** mhl2017

#### **Overview**

Valid: 2909   Invalid: 112   Minimum: 58   Maximum: 999   Mean: 127.642   Standard deviation: 80.78  
 Type: Continuous   Decimal: 0   Width: 10   Range: 58 - 999   Format: Numeric

### **M5B: BP reading 2: diastolic**

**Data file:** mhl2017

#### **Overview**

Valid: 2909   Invalid: 112   Minimum: 30   Maximum: 999   Mean: 82.629   Standard deviation: 83.566  
 Type: Continuous   Decimal: 0   Width: 10   Range: 30 - 999   Format: Numeric

**M6A: BP reading 3: systolic****Data file:** mhl2017**Overview**

Valid: 2909   Invalid: 112   Minimum: 51   Maximum: 999   Mean: 127.045   Standard deviation: 80.034  
 Type: Continuous   Decimal: 0   Width: 10   Range: 51 - 999   Format: Numeric

---

**M6B: BP reading 3: diastolic****Data file:** mhl2017**Overview**

Valid: 2909   Invalid: 112   Minimum: 30   Maximum: 999   Mean: 82.288   Standard deviation: 82.903  
 Type: Continuous   Decimal: 0   Width: 10   Range: 30 - 999   Format: Numeric

---

**XM17A: average systolic BP****Data file:** mhl2017**Overview**

Valid: 2909   Invalid: 112   Minimum: 42   Maximum: 999   Mean: 127.551   Standard deviation: 79.722  
 Type: Continuous   Decimal: 0   Width: 10   Range: 42 - 999   Format: Numeric

---

**XM17B: average diastolic BP****Data file:** mhl2017**Overview**

Valid: 2909   Invalid: 112   Minimum: 30   Maximum: 999   Mean: 82.617   Standard deviation: 82.442  
 Type: Continuous   Decimal: 0   Width: 10   Range: 30 - 999   Format: Numeric

---

**M7: took raised BP****Data file:** mhl2017**Overview**

Valid: 2909   Invalid: 112  
 Type: Discrete   Decimal: 0   Width: 10   Range: 1 - 99   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	11	0.4%
2	No	2896	99.6%
77	Don't know	1	0%

99	Refuse	1	0%
Sysmiss		112	

**XM8PREG: pregnant****Data file:** mhl2017**Overview**

Valid: 1587 Invalid: 1434

Type: Discrete Decimal: 0 Width: 34 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	pregnant	43	2.7%
2	breastfeeding	159	10%
3	both, pregnant and breastfeeding	66	4.2%
4	neither, pregnant or breastfeeding	1226	77.3%
77	don't know	64	4%
99	refused	29	1.8%
Sysmiss		1434	

**M10A: height device ID****Data file:** mhl2017**Overview**

Valid: 2909 Invalid: 112 Minimum: 1 Maximum: 9999 Mean: 21.736 Standard deviation: 216.824

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 9999 Format: Numeric

**M10B: weight device ID****Data file:** mhl2017**Overview**

Valid: 2909 Invalid: 112 Minimum: 1 Maximum: 999 Mean: 17.044 Standard deviation: 107.559

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 999 Format: Numeric

**M11: height (cm)****Data file:** mhl2017

**Overview**

Valid: 2909   Invalid: 112   Minimum: 100   Maximum: 999   Mean: 176.701   Standard deviation: 119.415  
 Type: Continuous   Decimal: 0   Width: 10   Range: 100 - 999   Format: Numeric

**M12: weight (kg)**

Data file: mhl2017

**Overview**

Valid: 2909   Invalid: 112   Minimum: 24.9   Maximum: 999   Mean: 93.657   Standard deviation: 128.084  
 Type: Continuous   Decimal: 0   Width: 10   Range: 24.9 - 999   Format: Numeric

**B1: fasting for past 12 hrs**

Data file: mhl2017

**Overview**

Valid: 3021   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 10   Range: 1 - 99   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	yes	2	0.1%
2	no	2909	96.3%
99	missing	110	3.6%

**B3: gluc device ID**

Data file: mhl2017

**Overview**

Valid: 2909   Invalid: 112   Minimum: 1   Maximum: 999   Mean: 24.576   Standard deviation: 135.995  
 Type: Continuous   Decimal: 0   Width: 10   Range: 1 - 999   Format: Numeric

**B5: fasting blood glucose (mg/dl)**

Data file: mhl2017

**Overview**

Valid: 2909   Invalid: 112   Minimum: 20   Maximum: 999   Mean: 140.624   Standard deviation: 143.541  
 Type: Continuous   Decimal: 0   Width: 10   Range: 20 - 999   Format: Numeric



**B6: took insulin today****Data file:** mhl2017**Overview**

Valid: 2909 Invalid: 112

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	13	0.4%
2	No	2894	99.5%
77	Don't know	1	0%
99	Refuse	1	0%
Sysmiss		112	

**B7: chol device ID****Data file:** mhl2017**Overview**

Valid: 2909 Invalid: 112 Minimum: 1 Maximum: 999 Mean: 25.055 Standard deviation: 138.156

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 999 Format: Numeric

**B8: total cholesterol (mg/dl)****Data file:** mhl2017**Overview**

Valid: 2909 Invalid: 112 Minimum: 100 Maximum: 999 Mean: 171.765 Standard deviation: 128.96

Type: Continuous Decimal: 0 Width: 10 Range: 100 - 999 Format: Numeric

**B9: chol meds taken****Data file:** mhl2017**Overview**

Valid: 2909 Invalid: 112

Type: Discrete Decimal: 0 Width: 10 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
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1	Yes	5	0.2%
2	No	2899	99.7%
77	Don't know	2	0.1%
99	Refuse	3	0.1%
Sysmiss		112	

## AGERANGE: agerange

Data file: mhl2017

### Overview

Valid: 2992 Invalid: 0

Type: Discrete Width: 5 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
18-24		471	15.7%
25-34		798	26.7%
35-44		733	24.5%
45-54		518	17.3%
55-64		318	10.6%
65+		154	5.1%

# study\_resources

## questionnaires

### Questionnaire (xlsformat)

---

title Questionnaire (xlsformat)  
country Marshall Isld.  
filename Marshall2017.xls

---

## reports

### Report

---

title Report  
country Marshall Isld.  
filename STEPS\_MarshallIslands\_2017\_Report.pdf

---

## technical\_documents

### Generic STEPS Questionnaire (version 3.1)

---

title Generic STEPS Questionnaire (version 3.1)  
filename STEPS\_Instrument\_V3\_1.pdf

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