

2018

# Integrated Community Health Approach Program (ICHAP) Survey:

Behavioral Surveillance from MoH Outreach Programming



**Ministry of Health** 



# Integrated Community Health Approach Program Survey (ICHAP) 2017 Report

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# **Key Findings**

### Media

- The most common media through which people receive health messages was TV (68%), followed by radio (19.7%), Facebook<sup>™</sup> (7%), and newspaper (5.3%).
- Messages regarding **Smoking** and **Exercise** were the most frequently reported type of information received through the media (52.2% and 51.5% respectively)

### **Alcohol Consumption**

- Overall 9.2% of respondents reported binge drinking (having more than 5 alcoholic beverages at a time within the past week).
- Male respondents were more likely to report consuming more than 5 alcoholic beverages at a time (14.6%) compared with females (6.6%).

### **Tobacco Use**

- 35.5% of respondents reported using tobacco within the past year.
- About 45% of men used tobacco in the past 12 months compared only 29% of women.

### **Fruit and Vegetable Consumption**

• Recommended daily fruit and vegetable consumption was very low for all gender and age groups (6.1% of all respondents).

### **Physical Activity**

- 61% of respondents indicated they had at least 30 minutes of physical activity on a daily basis.
- A higher percentage of men (66%) were physically active compared to other gender groups.

### **Family Planning**

Only 17% of respondents reported using family planning services.

### **HIV and STI Testing**

- HIV testing overall was low, with 14.3% having a test in the past 12 months.
- Fa'afafine and fa'atamaloa had the highest testing rates for HIV out of all gender groups (20.4% and 20% respectively).
- Testing rates for other STI's (including Chlamydia, Syphilis, Gonorrhea or Hepatitis B or C) was even lower than for HIV amongst all groups in the past 12 months (8.8%).
- Fa'afafine and fa'atamaloa had the highest self-reported testing rate (18.5% and 20% respectively).

### **Condom Use**

• 60.8% of respondents reported being sexually active within the past year and only 5% of those people reported using condoms during their last sexual intercourse.

### **Knowledge of Chlamydia Transmission**

• The majority of respondents scored Low (39.4%) to Very Low (32.8%) when it came to knowledge of Chlamydia transmission and prevention.

### **Knowledge of TB Transmission**

• Knowledge of TB transmission and prevention as also commonly Very Low to Low (43.1%).

# Acknowledgements

The Ministry of Health would like to express its gratitude to the following organizations and communities for dedicating their time, expertise, and hard work in implementing all of the outreach events in 2018. As partners, you have made these programs the quality events that they are and joined us in our mission of bringing prevention to the village level. We owe you great thanks and hope to further build these relationships in the future. Fa'afetaitele lava mo le fesoasoani!

- Clinical Services (Ministry of Health)
- Samoa Red Cross Society
- Samoa Family Health Association
- Samoa Fa'afafine Association
- Ministry of Women, Community and Social Development
- Young Women's Christian Association

Funded by the Government of Samoa and UNDP/Global Fund to Fight HIV, AIDS, and Malaria



Red Cross presenting Health Awareness Drama Skits

### Introduction

Integrated Community Health Approach Program (ICHAP) is an ongoing series of health outreach programs conducted by the Ministry of Health (first in 2016) with various partners. This report details the findings of the survey that was distributed as part of those programmes in 2018 to improve health surveillance across multiple health indicators. Originally, ICHAP was first implemented in September 2016. The Samoa Red Cross Society (SRCS), the National Health Service (NHS), and the Ministry of Women, Community and Social Development (MWCSD) led by the HIV,STI, and TB National Programme, staff of the Communicable Disease Clinic and the Health Education and Promotion team at the Ministry of Health. The goal was to bring prevention education out into the communities on infectious diseases, climate change resilience, maternal and child health, sexual health, and family wellness. All of these areas of health were integrated into one programme to overcome the challenges posed by cultural and religious stigma of sensitive health issues which if delivered alone would not be as effectively received by the communities. Prevention and wellness messages were delivered together as a holistic approach to as a non-partisan way of uniting individuals and community structures in improving the health of villages. Additionally, the rationale was to unify and consolidate outreach programming and resources amongst government and NGO's to deliver more impactful programs.

The program in 2018 was hosted in 5 villages on the island of Upolu and 5 on Savai'i. Respondents that attended this program reside in the following villages and sub-villages;

•	Alafua	•	Lalomalava	•	Saina	•	Tuasivi
•	Elise Fou	•	Laulii	•	Saleimoa	•	Vaega
•	Faala	•	Leauvaa	•	Salelavalu	•	Vaiala
•	Fagalii	•	Letogo	•	Salepoa'e	•	Vailele
•	Faleasiu	•	Magiagi	•	Salelologa	•	Vailoa
				•	Salua -		
•	Faleula	•	Malie		Manono	•	Vaipuna
•	Fasitoo	•	Manono	•	Satapuala	•	Vaitele
•	FasitooUta	•	Moataa	•	Satufia	•	VaiteleFou
•	Fatausi	•	Mosula	•	Satuiatua	•	Vaitele tai
•	FinauVaega	•	NuuFou	•	Satupaitea	•	VaiteleUta
•	Foailuga	•	Palauli	•	Sili	•	Vaitoomuli
•	Fogapoa	•	Papa	•	Toamua	•	Vaiusu
•	Gataivai	•	Puleia	•	Tuaefu	•	Vaivaseuta
•	Gautavai	•	Pitonuu	•	Tuanai		
•	Iva	•	Safua	•	Tuanaimato		

For 2018, the total estimated attendance of these programs is 700, with546 agreeing to complete the survey, which comprise the sample for the analysis in this report. The results represent the populations reached by ICHAP in 2018 from targeted villages across the country.

Between 2016 and 2018, the ICHAP outreach events are estimated to have reached 30 villages, 25 Primary schools and colleges, 2 prison facilities, 2 youth organizations. The estimated attendance for the programme is 1,400 for community members and 2,500 for school students. The ICHAP programme has been well received by all participating communities and organizations. All communities and institutions that participated have requested similar programmes in the future for

continued awareness and education. MoH staff with the assistance of Ministry of Women, Community and Social Development have also identified a large number of new villages that want to participate in the programme. Samoa Red Cross Society was the first NGO to partner with MoH on the delivery of ICHAP, but multiple others have since joined the partnership. These NGO's are Samoa Fa'afafine Association, Young Women's Christian Association, Teen Challenge Samoa (for high risk youth), Samoa AIDS Foundation, and Samoa Family Health Association. The ICHAP programme has been a key opportunity for the MoH to improve its monitoring data and case reporting on multiple health issues (NCD's, TB, STI's, HIV, etc). ICHAP plans to continue implementation in the coming years with new villages and primary schools targeted, as well as routine programming with prisons.



ICHAP opening ceremony 2018

### **Methods**

An 18 item questionnaire was distributed to all attendees of the ICHAP events in villages with the exception of primary school students. Respondents therefore represent only the village committee members, village residents, and specific populations targeted by each program that attended. 546 questionnaires were completed out of a total of 700 attendees, creating a response rate of 78%. This created a convenience sample of n=546. The goal of the survey was to use the ICHAP events as an opportunity to collect case reporting data on national health indicators from rural and low-access communities, youth, and key populations, due to the limited available of random-sampled population based data. The survey was distributed at the beginning of the program to capture baseline health information on a variety of health issues including; NCD risk factors, family planning, HIV and STI testing, sexual health risk factors, TB and Chlamydia knowledge, and reported health problems in rural villages.

The survey itself was paper-based and included multiple choice questions, yes/no questions, 1 open ended section, and knowledge scales for Chlamydia and Tuberculosis. These scales were adapted from Centres for Disease Control instruments assessing knowledge of prevention and transmission. Some scale items were omitted due to their lack of relevance or conceptual conflicts when translated into Samoan. For knowledge scales, respondents were given a True/False/Unsure answer quiz through series of statements about the disease (a 7 item scale for TB and 11 item scale for Chlamydia). 7 total points could be scored for TB and 11 total points for Chlamydia. Scores were categorized as Very Low, Low, Moderate, and High.

ICHAP sites were chosen based on whether the village had received previous Ministry of Health programming before, remoteness of the village to healthcare service centres, the village authorities demonstrated consensus regarding the community need for the program and village support, or were located in high case areas of notifiable infectious diseases (Typhoid and TB).

### Limitations

Random sampling was not used due to the nature of the program delivery. Convenience sampling was used as a means to measure the implementation of the program, and provide case-reporting of demographic health factors of the communities that participated. This may cause sample bias and limit the generalizability of the results to the overall population.

Additionally, missing data for only 1 question was high, presenting potential sampling bias for those items. Typically for behavioural descriptive analyses, missing data between 10-20% is acceptable. Missing data for the items below exceeds those values.

**Table 1 Missing Data** 

Item	Number	Percent
Type of exercise	166	34.4%

There are also multiple factors that may contribute to response bias on the survey. During data collection, it was observed that some respondents had a friend fill out their questionnaire for them. Additionally, there is also an inherent bias in using self-reported measures of health

behaviours. This applies heavily to questions on NCD risk factors, sexual activity or behaviour, and questions about sex work, where respondents are less likely to give an answer that is less socially desirable.

For knowledge scales for Chlamydia and TB, respondents would often only check an item on a scale that they knew the answer to, despite there being an answer field provided for "Do not know". This was done to reduce missing data. However, checking the answer of "Do not know" is seen as a socially undesirable answer. This led to many blank items on knowledge scales. However, data was only recorded as missing for a knowledge scale if the respondent had not ticked an answer box in the scale. 100% of completed surveys had multiple boxes ticked on knowledge scales. Blank items were therefore coded as incorrect responses instead of missing, as it is assumed the respondent did not know the answer, but did not want to report it.

Knowledge scales for Chlamydia and TB were adapted from prevention knowledge assessments utilized by the Centre for Disease Control. The order and wording had to be adapted to fit the translation and some items were omitted because the translation did not make sense in Samoan.

# Sample

A sample of n=546 respondents was obtained, representing 78% of all program attendees. This means that the sample adequately represents the total number of people who participated in the program.

Table 2 Ge	ender Distribu	tion of Sample
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Gender	Number	Sample Percent	Population Distribution	Source
Female	257	47.1%	48.6%	Census 2016
Male	206	37.7%	51.4%	Census 2016
Fa'afafine	54	9.9%	15.3%	Mapping & Behavioural Study 2016
Fa'atamaloa	5	0.9%	Unknown	-
Unknown	24	4.4%	-	-
Total	546	100%		

The gender distribution of respondents differed from the gender distribution of the population in that males were under-sampled compared to females and fa'afafine. Fa'afafine (transgender women) and Fa'atamaloa (transgender men) represent roughly 10% of the sample and are estimated to be about 15% of Samoa's population according to the estimates of the Pacific Multi-country Mapping and Behavioural Study 2016 (UNDP).

Nearly 13% of all respondents were youth age 15-24, and about 35.4% of respondents were above age 50. This means generally the sample is biased towards older adult age groups. However, an adequate sample was obtained to measure trends in youth. The elderly are also vulnerable to NCD's and TB, so results of this sample would be of particular interest to those areas of programming. Additionally, because the sample is biased towards older age groups, sex health risk factors (which are more common in youth) may be lower than actual rates in the population.

**Table 3 Age Distribution of Sample** 

Age Group	Number	Percent
0-14	3	0.6%
15-19	24	4.4%
20-24	47	8.6%
25-29	44	8.1%
30-34	46	8.4%
35-39	43	7.9%
40-44	54	9.9%
45-49	64	11.7%
50+	193	35.4%
Unknown	28	5.1%
Youth 15-24	71	13.0%
Under 35	164	30.0%
35 or older	354	64.8%
Total	546	100%

The majority of respondents resided in villages located on the island of Savai'i(64%). As these villages are more rural, under-served, and under-represented, these areas were targeted by ICHAP this round. Usually Savai'i is underrepresented in samples due to smaller population size and remoteness. Upolu is where the majority of the country's population is concentrated, especially in the Apia Urban Area and North West Upolu. The results for 2018 are therefore more representative of rural areas.

**Table 4 Regional Distribution of ICHAP Attendees** 

Census Region	Number	Percent
Apia Urban Area	78	14.29%
North West Upolu	100	18.32%
Rest of Upolu	0	0.00%
Savai'i	350	64.10%
Unknown	18	3.30%
Total	546	w

Though the sample overall differs from the general population, all genders and age groups have sufficient sample sizes for analysis and estimations. The sample also adequately represents the populations reached by ICHAP in 2018.



Clinical Service Staff screening attendees for blood pressure and blood glucose 2017



ICHAP Women's Health Seminar 2018

### Media

ICHAP attendees were asked about what types of media they regularly access and what health messages appear on the media, in order to gauge the reach of current health promotion campaigns, as well as collect data on which form of media has the largest audience. Overwhelmingly, respondents reported that the most common media through which they receive health messages was TV (68%), followed by radio (19.7%), Facebook<sup>TM</sup> (7%), and newspaper (5.3%).

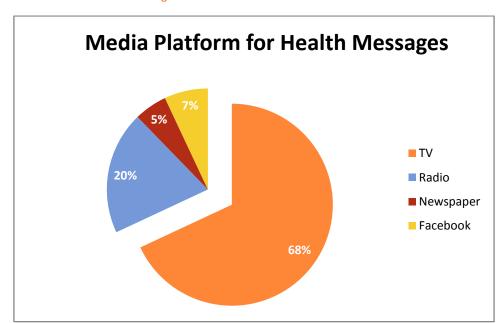


Figure 1 Media Platform for Health Messages

**Table 5 Media Platform for Health Messages (Respondents)** 

Media Platform	Respondents	Percent
TV	477	68.0%
Radio	138	19.7%
Newspaper	37	5.3%
Facebook	49	7.0%

Talamua

FM

16

3.8%

Tafesilafa'i

16

3.8%

Magic FM

35

8.3%

In terms of specific radio or TV service providers, respondents were asked which station or channel they access regularly. Respondents listened to Talofa FM most frequently (29.3% of all responses), followed by 2AP (20.9%), My FM, Malo FM, Magic FM, Tafesilafa'i, and Talamua FM.

Preferred Radio Station

180
160
140
120
80
40
40
20

Malo FM

36

8.6%

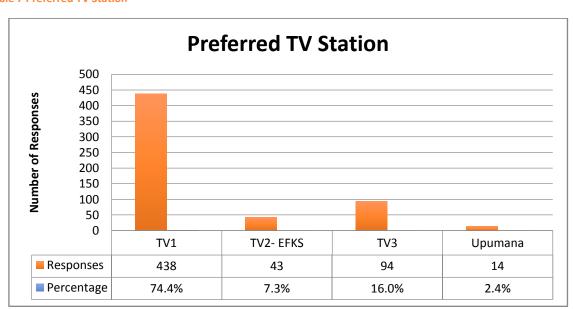
**Table 6 Preferred Radio Station** 

Respondents were also asked to indicate which TV network they accessed most regularly. TV1 had the most responses (74.4%).

My FM

44

10.5%



**Table 7 Preferred TV Station** 

Responses

Percentage

0

2AP

114

27.1%

Talofa FM

160

38.0%

Additionally, respondents were asked to identify which health messages they received through the media. Smoking and Exercise were the most frequently reported type of information received through the media by respondents (52.2% and 51.5% respectively). Almost 32% had received information through the media about mosquito bourne illnesses such as dengue. Information on HIV and STI's was received through the media by 26.9% of respondents. Binge drinking health information was less frequently reported amongst respondents (22.9%). Health information on TB was the least reported category by respondents (17.9%).

**Table 8 Type of Health Information Received Through Media** 

Type of Health Information	Number of Respondents Receiving Information	Percentage of All Respondents
Smoking	285	52.2%
Binge Drinking	125	22.9%
Exercise	281	51.5%
HIV and Sexually Transmitted Infections	147	26.9%
ТВ	98	17.9%
Mosquito Transmitted Illnesses	173	31.7%

# **Alcohol Consumption**

Overall 9.2% of respondents reported binge drinking (having more than 5 alcoholic beverages at a time within the past week). Male respondents were more likely to report consuming more than 5 alcoholic beverages at a time (14.6%) compared with females (6.6%).

**Table 9 Binge Drinking by Gender** 

Binge Drinking (More than 5 beverages at a time during past week)	Number reporting binge drinking	Percentage (of gender group)
Female	17	6.6%
Male	30	14.6%
Fa'afafine	1	1.9%
Fa'atamaloa	0	0.0%*
Unknown	2	8.3%
All Respondents	50	9.2%

<sup>\*</sup>Percentage is not significant due to small sample size in age/gender group

### **Tobacco Use**

35.5% of respondents reported using tobacco within the past year. About 45% of men used tobacco in the past 12 months compared only 29% of women. Fa'afafine had significant rates of smoking comparable to females (28%).

**Table 10 Tobacco Use by Gender** 

Tobacco Use in past 12 months	Number reporting tobacco use	Percentage (of gender group)
Female	74	28.8%
Male	93	45.1%
Fa'afafine	15	27.8%
Fa'atamaloa	3	60.0%*
Unknown	9	37.5%
Total	194	35.5%

<sup>\*</sup>Percentage is not significant due to small sample size in age/gender group

Out of the 194 respondents that reported using tobacco within the past 12 months, 88.1% of these individuals have ever attempted to quit tobacco use. The majority of all gender groups reported ever attempting to quit tobacco use (89% of men, 88% of women, 87% of fa'afafine).

Table 11 Ever Cessation Attempt of Tobacco Users by Gender

Ever cessation attempts among tobacco users	Number reporting cessation attempt	Percentage (of gender group)
Female	66	89.2%
Male	82	88.2%
Fa'afafine	13	86.7%
Fa'atamaloa	3	100.0%*
Unknown	7	77.8%
Total	171	88.1%

\*Percentage is not significant due to small sample size in age/gender group



**ICHAP School Programme** 



Samoa Red Cross Volunteers presenting to primary school students 2017



# Fruit and Vegetable Consumption

Recommended daily fruit and vegetable consumption of 5 servings was very low for all gender and age groups (6.1% of all respondents). No significant differences can be determined in age and gender due to the low number of respondents reporting eating at least 5 servings of fruit and vegetables per day. Roughly 26% had 0 daily servings of fruits or vegetables.

**Table 12 Daily Fruit and Vegetable Consumption** 

Number of fruits or vegetables consumed per day	Number	Percent
0	98	25.8%
1	97	25.5%
2	78	20.5%
3	64	16.8%
4	20	5.3%
5	13	3.4%
6	4	1.1%
7	1	0.3%
8+	5	1.3%
5 or more	23	6.1%

Though few respondents reported the recommended servings, the majority of respondents had between 1-4 servings (68.2%). This suggests that respondents have regularly incorporated fruits and vegetables into diet, but just may need more awareness to increase their servings.



ICHAP Men's Health Seminar 2018

# **Physical Activity**

Overall, 61% of respondents indicated they had at least 30 minutes of physical activity on a daily basis. A higher percentage of men (66%) were physically active compared to other gender groups. Fa'afafine had the lowest percentage of reported physical activity (52%).

**Table 13 Physical Activity by Gender** 

Physical Activity (30 min. per day)	Number	Percentage (of gender group)
Female	152	59.1%
Male	136	66.0%
Fa'afafine	28	51.9%
Fa'atamaloa	2	40.0%
Unknown	15	62.5%
Total	333	61.0%

<sup>\*</sup>Percentage is not significant due to small sample size in age/gender group

# **Family Planning**

Only 17% of respondents reported using family planning services. Female and fa'afafine were more likely to report using family planning services (19.8% and 16.7% respectively). Men had lower rates of family planning utilization (13.6%).

**Table 14 Family Planning Use by Gender** 

Family Planning	Number	Percentage (of gender group)
Female	51	19.8%
Male	28	13.6%
Fa'afafine	9	16.7%
Fa'atamaloa	0	0.0%
Unknown	5	20.8%
Total	93	17.0%

The respondents that indicated they use family planning services (93) were then asked to identify their most common source of family planning if they have ever used a family planning service. The most common source of family planning was overwhelmingly hospitals or health centres.

**Table 15 Source of Family Planning** 

Source of family planning	Number	Percent	
Hospital	76	81.7%	
Private Doctor	5	5.4%	

Source of family planning	Number	Percent
Overseas	2	2.2%
Other	1	1.1%
Friend or family member	1	1.1%

# **HIV and STI Testing**

HIV testing overall was low. Only 14.3% had a test in the past 12 months. Fa'afafine and fa'atamaloa had the highest testing rates for HIV out of all gender groups (20.4% and 20% respectively). Testing rates were lower for men and women (15.5% and 11.3% respectively).

Table 16 HIV Testing in Past 12 Months by Gender

Tested for HIV in past 12 months	Number	Percentage (of gender group)
Female	29	11.3%
Male	32	15.5%
Fa'afafine	11	20.4%
Fa'atamaloa	1	20.0%*
Unknown	5	20.8%
Total	78	14.3%

<sup>\*</sup>Percentage is not significant due to small sample size in age/gender group

Testing rates for other STI's (including Chlamydia, Syphilis, Gonorrhea or Hepatitis B or C) was even lower than for HIV amongst all groups in the past 12 months (8.8%). Fa'afafine and fa'atamaloa had the highest self-reported testing rate (18.5% and 20% respectively) followed by men (7.8%), then women (7%).

Table 17 STI Testing in Past 12 Months by Gender

Tested for STI's in past 12 months	Number	Percentage (of gender group)
Female	18	7.0%
Male	16	7.8%
Fa'afafine	10	18.5%
Fa'atamaloa	1	20.0%*
Unknown	3	12.5%
Total	48	8.8%

<sup>\*</sup>Percentage is not significant due to small sample size in age/gender group

Respondents were asked what factors make it difficult to test for HIV. The most common response was that it's not difficult for respondents they are just unwilling (22.5%), and not having enough money to access testing services (22%). A significant number of people reported simply not wanting to access the service. The unwillingness was further explored with other questions. Additionally, although HIV testing is offered for free at all national hospitals and health centres, transport and service fees may be a barrier to access in those cases. Physician fees required to see the doctor and then receive the referral to testing services may also prevent people from accessing testing through primary care pathways.

**Table 18 Barriers to HIV Testing Services** 

Barrier to HIV Testing	Number	Percent
No money	120	22.0%
No time	80	14.7%
No barriers just don't want to	123	22.5%
Don't know where services are available	60	11.0%
Other	73	13.4%
Fear people will find out	16	2.9%

Respondents were also asked if they were planning on getting an HIV test. A follow-up question to "No" responses was used to determine the reasons why a person would be unwilling to get testing. Overall 46% of respondents indicated they were planning to get HIV tested. About 52% conversely indicated that they were not planning to get tested. Males were the most frequent respondents that planned on seeking HIV testing, with fa'afafine being the lowest (as most of them had already been tested).

**Table 19 Public Interest in HIV Testing Services** 

Planning to test for HIV	Number	Percentage (of gender group)
Female	113	44.0%
Male	103	50.0%
Fa'afafine	21	38.9%
Fa'atamaloa	2	40.0%*
Unknown	12	50.0%
Total	251	46.0%

<sup>\*</sup>Percentage is not significant due to small sample size in age/gender group

286 people were not planning to test for HIV. 127 (66.8%) of those people provided a response as to why they were not accessing testing services. From these respondents, the most common reasons for not planning to test for HIV were that 1) they don't believe they currently are at risk or could be affected by HIV, or 2) they have 1 or few sexual partners and therefore not at risk. The attitude that a person is simply not at risk of HIV or couldn't, or cannot contract HIV from limiting sex to one partner (without condom use) indicates a knowledge gap for people's perception about HIV transmission. All sexually active people are at risk, and it only takes one infected sexual partner to be exposed to the virus. Future education interventions need to emphasize that HIV and some STI's often have no symptoms for long periods of time.

**Table 20 Reasons for Declining HIV Testing** 

Reason for not wanting an HIV test	Number	Percentage (of those not planning to test for HIV)
Don't believe they are or could be affected by it	71	24.8%
Have only 1 or few partners	53	18.5%
No money or no time	14	4.9%
No symptom or are currently in good health	11	3.8%
Not having sex	9	3.1%
Other	1	0.3%



Programme with village committee members 2017

# **Condom Use and Sexual Partnerships**

Respondents were asked if the used a condom at their last sexual intercourse. 60.8% of respondents reported being sexually active within the past year (n=322 having at least 1 sexual partner). 127 (23%) respondents reported that they were not currently having sex and only 4.8% reported have more than 1 sexual partner within the past year. This is low, and likely due to the fact that sexual activity with more than one partner is taboo, with respondents less likely to report this behaviour on a survey. Multiple sexual partnerships often occur in the context of infidelity in Samoa, which further biases these self-reported measures. The actual rate of multiple sexual partnerships is therefore likely higher.

Additionally, condom use was low amongst those that reported having at least 1 sexual partner in the past year. Respondents were asked if they used a condom during their last sexual intercourse. Only 5% indicated that they used condoms. This is consistent with previous surveys and studies. The prevailing belief is that condoms are for sexually promiscuous behaviour, and that people in relationships do not need to wear condoms during intercourse. Condoms are also difficult to access in rural areas as well.

Table 21 Sexual Partnerships and Condom Use in Past Year

Sexual Partnerships and Condom Use in Past Year	Number	Percent
No sexual partners	127	23.3%
1 sexual partner	296	54.2%
Multiple sexual partners (>1)	26	4.8%
Unspecified	97	17.8%
Condom Use at Last Sexual Intercourse*	16	5.0%

<sup>\*</sup>amongst those that reported at least 1 sexual partner in the past year (n=322)

# Chlamydia Knowledge

Chlamydia is the most prevalent STI in the country (22.9% in 2018), particularly amongst those ages 20-29. The survey therefore wanted to measure population knowledge of proper prevention. Knowledge of Chlamydia transmission and health effects was measured using an 11 question scale. The average score of all respondents (3.7) was "Low". The majority of respondents scored Low (39.4%) to Very Low (32.8%) on these scales. Only 2% achieved a high knowledge score.

**Table 22 Levels of Chlamydia Knowledge** 

Chlamydia Knowledge Scores	Number	Percent
Very Low (0-2)	179	32.8%
Low (3-5)	215	39.4%
Moderate (6-8)	144	26.4%
High (9-11)	8	1.5%
Total	546	100%
Mean	Standard Deviation	Variance
3.7	2.6	6.8

By analyzing each scale item, there were items that respondents consistently scored lower on, which revealed common misconceptions respondents had about Chlamydia transmission and prevention. The number of correct responses was notably low across all questions. For example, only 13.6% knew that men with Chlamydia may not have symptoms, only 17.6% knew that you can only get Chlamydia more than once, and only 24.9% knew Chlamydia can cause eye infections. Additionally, only 50.4% were aware that wearing condoms prevents Chlamydia, and only 36.3% knew that birth control will not prevent Chlamydia transmission.

**Table 23 Beliefs about Chlamydia Transmission and Prevention** 

Item	Answer	<b>Correct Responses</b>	Percent
You can catch Chlamydia from toilet seats.	FALSE	171	31.3%
Men with Chlamydia might not have symptoms.	TRUE	74	13.6%
Most women will NOT develop symptoms of Chlamydia.	TRUE	183	33.5%
Only women get Chlamydia.	FALSE	314	57.5%
Chlamydia can affect men's fertility.	TRUE	147	26.9%
Chlamydia can affect women's fertility.	TRUE	172	31.5%
Chlamydia can cause eye infections.	TRUE	136	24.9%
Once you get chlamydia, you can't get rid of it.	FALSE	262	48.0%
You can get Chlamydia more than once.	TRUE	96	17.6%
Wearing a condom prevents Chlamydia.	TRUE	275	50.4%
Birth control pills prevent Chlamydia.	FALSE	198	36.3%

# **TB Knowledge**

TB knowledge scores were also commonly Very Low to Low (43.1%). More respondents were able to obtain a high knowledge score for TB (17.9%) than Chlamydia where only 2% achieved a High score. A significant number of respondents scored a moderate level of knowledge of TB (about 39%). Although TB scores are relatively higher, the average score was still "Low", indicating the need for further progress with TB education interventions.

**Table 24 Levels of TB Knowledge** 

TB Knowledge Scores	Number	Percent
Very Low (0-1)	126	23.1%
Low (2-3)	109	20.0%
Moderate (4-5)	213	39.0%
High (6-7)	98	17.9%
Total	546	100.0%
Mean	Standard Deviation	Variance
3.4	2.1	4.2

The common misconception about TB that respondents reported was that all people that get infected with TB will get sick or show symptoms. Only 11.2% knew that not everyone who gets infected with TB will get sick. Additionally only 37.4% knew that TB bacteria don't survive well in environments with fresh air and sunlight. In terms of treatment, only 64% were aware that even if an infected person doesn't feel sick, they still have to take medicine for TB

**Table 25 Beliefs about Tuberculosis Transmission and Prevention** 

Item	Answer	Correct Responses	Percent
TB is spread by one person to another through the air	TRUE	371	67.9%
Everyone who gets infected with TB will get sick.	FALSE	61	11.2%
Some people can get TB disease easier than others	TRUE	273	50.0%
TB disease can be cured	TRUE	372	68.1%
TB can affect other parts of the body besides the lungs	TRUE	244	44.7%
TB bacteria have a hard time living in fresh air and sunlight	TRUE	204	37.4%
If you have TB infection you may have to take medicine, even if you don't feel sick	TRUE	349	63.9%

# **Key Population Characteristics**

The survey also asked questions that would allow respondents to be identified by key population group. A key population is defined as a group that is vulnerable to certain diseases due to behavioural factors and have unique needs of prevention programming. With regards to HIV and STI's key population groups include fa'afafine (transgender), sex workers, prisoners, people who have sex with members of the same sex, and people with multiple sexual partnerships.

**Table 26 Representation of Key Populations in ICHAP 2018** 

Key Population Group	Number	Percent of Sample	Estimated population (number)	Estimated population (percent)
Multiple Sexual Partnerships	322	59.0%	No estimate	No estimate
<ul> <li>Sexually Active Females age 15-49</li> </ul>	155	28.3%	43,904 (Census 2016)	22.4%
Ever engaged in sex work	6	1.1%	400 (Behavioral Mapping Study 2016)	0.20%
Had sex with member of the same sex	10	1.8%	No estimate	No estimate
Men reporting ever having sex with men (MSM)	1	0.2%	No estimate	No estimate
Fa'afafine	54	9.9%	30,000 (Behavioral Mapping Study 2016)	15%
Fa'afafine and MSM	55	10.1%	30,000	15%

The respondents and participants of ICHAP reflect accurately the distribution of key populations in the population. For the estimates that are available, the ICHAP sample is comparable to the general population. The population that engages in multiple sexual partnerships is not currently known. In place of this estimate, we can compare the ICHAP respondents to the general population estimates in the Census 2016 based on how many sexually active females age 15-49 are in each samples. Sexually active females age 15-49 represent 22% of the population according to the Census. The same group represents 28% of the respondents to the ICHAP Survey 2018. Therefore we can infer that the results of the ICHAP survey with regards to sexual partnerships (and therefore sexual risk factors) are adequately representative of the Samoan population. Additionally, sex workers and fa'afafine are also adequately represented. These numbers from the ICHAP sample are also provided for reference for other reporting to estimate coverage of health education and testing services by key population group.

# Appendix A. ICHAP Survey 2018

Ministry of Health Integrated Health Questionnaire Pepa Fesili Tu'ufa'atasi mo le Soifua Maloloina ( <i>Fa'alilolilo</i> )
Tausaga: Nu'u:
Ituaiga: Alii Tama'ita'i Fa'afafine Fa'atama
VAEGA 1: Iloiloga o auala e maua ai fa'amatalaga fa'a-le-soifua maloloina
1. O a vaega o feso'otaiga e masani na e iloa ai feau fa'asoifua maloloina?(Togi le li'o sa'o)
TV Leitio Nusipepa Facebook
2. O le a le leitio po'o le TV e masani na e maua ai feau fa'asoifua maloloina?(Togi le li'o o tali sa'o)
Leitio TV  2 AP Magic FM Talofa FM Tafesilafa'i TV 2 - EFKS My FM Talamua FM TV 3 Malo FM Upumana
3. <b>O</b> a feau fa'asoifua maloloina e masani ona e matamata ma fa'alogologo ai? (Li'o le tali sa'o)  Taofi le ulaula tapa'a  Fa'amai o le HIV/AIDs Siama o STI's  TB  Fa'ama'i e feavea'i e Namu
4. Na fai sau siaki o le HIV i totonu o le 12 masina ua tuana'i?
loe Leai
5. O e fuafua e fai sau siaki mo le HIV?
loe Leai
Afai o lau tali o le 'Leai', aisea?
VAEGA 2: Iloiloga o le malamalama i fa'ama'i pipisi e mafua o feusua'iga
6. Na siaki oe i siama o le ma'i afi? (siama o le Chlamydia, Syphilis, Gonorrhea or Hepatitis B or C) i totonu o le 12 masina talu ai?
loe Leai
7. E to'afia au pa'aga na lua feusua'i l i le tausaga ua tuana'i?
8. Na e fa'aaogaina se pa'u fai usuga i au feusua'iga mulimuli?  loe Leai e le'i feusua'i
9. Ua e faia ni feusua'iga e totogi ai oe i tupe, nisi oloa po'o fuala'au fa'asāina?    loe

10. Ua e faia ni feusuaiga ma se tagata o lou lava ituaiga (ft – teine i le teine,	/tama i	le tama	)
loe Leai			
11. Aiseā e faigata ai le fai o sau siaki mo fa'ama'i e pipisi o feusua'iga po'o	le HIV?		
leai se tupe musu ne'i iloa e nisi tagata e leai se faigatā, ou ou te leiloa nofoaga e fai ai leai se taimi e alu ai e vaai se foma'i		na'o ai si mafua	
12. Malamalama I le siama o le Chlamydia (Ma'I Afi): Sa'o pe Sese? Fa'amolemol	e tu'u le	'x' I lau	tali sa'o
			SE LEILOA
E mafai ona e pesia i le siama o le Chlamydia (ma'i afi) mai luga o le ipu o le fale	ui		
E leai ni auga o ali'i pe a a'afia i le siama (Chlamydia) o le ma'i afi			
E le iloa ni auga o le to'atele o tama'ita'i e a'afia i le siama o le (Chlamydia) ma'i	afi		
Na'o tama'ita'i e a'afia i le siama o le ma'l afi (Chlamydia)			
O le siama o le ma'i afi (Chlamydia) e le mafai ona fananau ai ali'i			
O le siama o le ma'i afi (Chlamydia) e le mafai ona fananau ai tama'ita'i			
O le siama o le ma'i afi (Chlamydia) e a'afia ai mata ma l'u ai ina tauaso			
E le mafai ona togafitia oe pe a e a'afia i le siama o le ma'i afi (Chlamydia)			
E mafai ona maua so'o oe i le siama o le ma'i afi			
E puipui oe mai le siama/ ma'i afi pe a e fa'aaogaina pa'u fai usuga			
E puipui oe mai le siama/ ma'i afi pe a e fa'aaogaina fualaa'u mo aiga fuafuaina			
13. Malamalama i le fa'ama'i o le Fatafata Vaivai (TB): Sa'o pe sese? Fa'amolemoi	le fa'atu	mu I le '	'y' lau tali sa'o
13. Walamalana He la ama l'o le l'atalata valval (13). 3a o pe sese: l'a amolemol	SA'O	SESE	LEILOA
D le TB po'o le fatafata vaivai e pipisi mai le si tagata i le isi ona e feaveai e le ea	3A 0	JEJE	LEILOA
O tagata uma e a'afia i le siama o le TB/fatafata vaivai o le a mama'i			
Disi tagata e faigofie ona a'afia i le fa'ma'l o le Tb nai lo isi tagata			
mafai ona togafitia le fa'ama'l o le TB/Fatafata vaivai			
mafai ona a'afia isi vaega o le tino I le siama o le TB/fatafata vaivai e ese mai			
nama			
faigata ona ola le siama o le TB i le ea mama ma le la			
Afai ua e a'afia I le siama o le TB, e tatau ona togafitia e ala i le inuina o ni fualaau nai le foma'l, e tusa lava pe e te fa'alogoina o na e malosi			
VACCA 4. Ilailaga a isi mastangan asifus mastalaina			
VAEGA 4: Iloiloga o isi mataupu soifua maloloina			
14. O fai sau aiga fuafuaina?			
loe Leai			
Afai o lau tali o le 'loe', o fea na mulimuli fai ai lau aiga fuafuaina? Filif	ili na'o l	e tasi	
Falema'i Foma'l Tumaoti Atunu'u i fafo Uo/Sui o	le Aiga	Nisi	

15. Inu ava malosi ova atu ma le lima fagu laiti, pe inu ava malosi i aso uma o le vaiaso?
loe Leai
16. Sa e ulaula tapa'a I totonu o le 12 masina ua tuanai?
loe Leai
Afai - "loe", O fuafua e taofi le ulaula tapaa?
loe Leai
17. E fia ni ituaiga fualaauaina eseese na e taumafaina ananafi?
18. O e faia ni faamalositino mo le lima aso o le vaiaso mo le 30 minute pe sili atu?
loe Leai
O le a le ituaiga fa'amalositino o lo'o e fa'atinoina?