

## THE SECOND GENERATION SURVEILLANCE IN MYANMAR 2003

The second generation surveillance was done in various cities in Myanmar during 2003 as a part of the sentinel surveillance.

However, the second generation surveillance on female was conducted in Dawei, Lashio, Mandalay, Meikhtila, Monywa, Taunggyi, Yangon. The total number of respondents was 5063 and of which the mean age of the respondent was  $30.37 \pm 9.59$  and the range was between 12 to 70 years. Out of these, 1509 respondents were under 24 years of age. The mean age of these participants was  $19.11 \pm 2.46$  years.

The mean age of first marriage was almost the same in all seven cities. It was usually at the age of 29 or 30 years. Comparing the marriage history among under 24 and above 24 years old respondents, the percentage of unmarried respondents was higher than the married persons. On the other hand, the total of 2693 respondents had started the first sex in a range of 12 to 48 years old. The mean age of first sex was 21.65 years in all areas. The percentage of having history of sexual intercourse was lower among under 24 years of age whereas among above 24 years of age the percentage of having history of sexual intercourse was higher. Moreover, the number of respondents had experienced sexual intercourse during one year was higher than those who had no experience sex.

Basically, the level of education of respondents in these areas was shown to be highest in the first to 4<sup>th</sup> standard schooling. Although the illiterate persons participated in this surveillance, the highest percent of 20.29% of illiterate persons was in Lashio. Naturally, most of the female respondents had no history of taking liquor, but in Dawei, Lashio and Taunggyi they gave the history of taking liquor less than one day per week. So also, they had no history of taking narcotic drugs in all areas, the maximum

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seven females admitted that they had taken narcotic drugs. A little number of female respondents admitted using narcotic drugs, however, most of those persons did not answer the question.

Although the number of females responded to the question of condom use was so little, the highest percentages of no history of passing discharge from genitalia and the genital ulcer were found in most of the female respondents.

On the knowledge of HIV, especially in Monywa and Meikhtila, they did not know whether the using condoms will prevent HIV. The highest percentage of respondents gave “don’t know” answers. In Yangon, females under 24 years did not know the answer. Moreover, the highest percentage of respondents believed that the bite of mosquitoes would transmit HIV. In the city of Lashio, Meikhtila and Yangon, the most of the respondents believed that abstain from sex would prevent the transmission of HIV whereas in the other places like Mandalay and Dawei, they did not accept that concept. Except Monywa, all respondents believed that sex with HIV negative partners could prevent HIV. Most of the respondents believed the concept of eating together with HIV would not transmit HIV. They also had the concept of sharing of needles, the babies borne to HIV positive mother and the breast milk would transmit HIV. Furthermore, they had knowledge of the HIV positive person can live as a healthy person.

The second generation surveillance on male population was conducted in Dawei, Lashio, Mandalay and Yangon. The total number of respondent were 2,442 but in Mandalay only 186 (7.62%) responded. The mean age of respondents was  $29.91 \pm 9.67$  and the range was 15-45. The total number of youth respondents under 24 years of age were 878 accounted for 36.18%. The mean age of first marriage was  $24.02 \pm 4.78$  and the range was 14-46. In all those cities, the mean age of first marriage was almost the same. The age of first sex was 22 years of age in Dawei and Lashio and 21 years and 23 years of age in Mandalay and Yangon respectively. The history of sexual intercourse in last one year had higher percentage in all cities among young men under 24 years of age than those of over 24 years of age. The percentage of those who got married was higher among those of over 24 years of age than the young aged.

The most of the respondents had the education of first to 4<sup>th</sup> standard in all cities except in Yangon where the respondents had passed 9<sup>th</sup> to 10<sup>th</sup> standard. The higher percentage of the respondents denied of taking liquor during one year and the narcotic drugs. Also, only six persons admitted of taking narcotic drugs intravenously in Yangon, and only four persons had same history. Most of the persons did not answer that question.

Regarding sexual behavior, the respondents who had regular sexual partners during one year had lower percentage. The majorities denied that they did not have regular sexual partners. Although there were many missing values on question of using condoms during last sex, most of the people admitted that they did not use condoms during last sex. The frequency of using condoms during one year among under 24 was higher than over 24 years of age. But there were a lot of people did not give a response. The higher percentage of male respondents had no history of sex with CSW during one

year in both age groups. However, the use of condoms in last sex with condoms was found to be higher in both age groups. The percentage of frequency of using of condoms with CSWs during one year was almost every time in both groups and in Dawei, Lashio, and Yangon. But in Mandalay, the respondents of under 24 used condoms “sometimes”.

The majorities of respondents denied the history of sex with casual acquaintances. Among over 24 years of age from all places also denied the use of condoms in contrast with under 24 years of age, they seemed to use condoms while sex with casual acquaintances. Very few people responded to the question on the history of frequency of using condoms with casual acquaintance during one year. On the other hand, most of the people denied the history of passing discharge from genitalia and genital ulcer during one year.

On the basic knowledge of HIV, the majority of respondent believed that the use of condoms during sex would prevent HIV and the mosquito bite would transmit HIV. They also believed that abstinence from sex would prevent the transmission of HIV in all places except in Dawei, where without sex would not prevent HIV transmission. Many participants responded that sex with HIV negative regular partner did not prevent AIDS. However, they believed that eating together with HIV positive persons would not transmit HIV. They also believed that sharing of used needles would transmit HIV. They gave a better response to HIV positive pregnant mothers transmit to their babies and also through breast milk. Besides, most of the respondents had knowledge of a healthy person may have HIV.

Second generation surveillance ( Female 2003)

Site Dawei, Lashio, Mandalay, Meikhtila, Monywa, Taunggyi, Yangon

Total number of respondents by site

Site	Freq	Percent
Dawei	889	17.56
Lashio	834	16.47
Mandalay	186	3.67
Meitila	685	13.53
Monywa	905	17.87
Taunggyi	826	16.31
Yangon	727	14.36

Age of respondents (Years)

Mean - 30.37±9.59 Range = 12-70

Total number of Youth respondents (<24 year)

Number 1509 19.11±2.46 29.80%

Age of first marriage

Dawei 30.86±10.02  
 Lashio 29.65±9.58  
 Mandalay 29.01±9.37  
 Meikhtila 31.31±9.36  
 Monywa 30.87±10.05  
 Taunggyi 29.35±9.13  
 Yangon 30.81±9.12

Level of education

site	illiterate	%	just read	%	1st-4th	%	5th-8th	%	9th-10th	%	1st yr-last yr	%	graduate	%
DAWEI	42	4.78%	139	15.81%	350	39.82%	187	21.27%	109	12.40%	24	2.73%	28	3.19%
LASHIO	167	20.29%	96	11.66%	173	21.02%	180	21.87%	131	15.92%	51	6.20%	25	3.04%
MANDALAY	18	9.73%	35	18.92%	166	89.73%	148	80.00%	92	49.73%	37	20.00%	14	7.57%
MEIKHTILA	48	7.04%	49	7.18%	205	30.06%	161	23.61%	104	15.25%	50	7.33%	67	9.82%
MONYWA	49	5.46%	93	10.37%	263	29.32%	162	18.06%	148	16.50%	83	9.25%	99	11.04%
TAUNGGYI	35	4.25%	31	3.77%	205	24.91%	217	26.37%	194	23.57%	74	8.99%	67	8.14%
YANGON	10	1.40%	24	3.36%	89	12.45%	190	26.57%	200	27.97%	72	10.07%	130	18.18%

History of taking liquor during one year

site	age	nil	%	<1/wk	%	1/wk	%	>1/wk	%
DAWEI	<24	267	98.89	2	0.74	1	0.37	0	0.00
	>=24	594	97.22	9	1.47	5	0.82	3	0.49
LASHIO	<24	255	96.23	8	3.02	1	0.38	1	0.38
	>=24	491	97.04	14	2.77	1	0.20	0	0.00
MANDALAY	<24	57	93.44	4	6.56		0.00		0.00
	>=24	119	95.20	5	4.00	1	0.80	0	0.00
MEIKHTILA	<24	167	99.40	1	0.60		0.00		0.00
	>=24	510	99.42	3	0.58	0	0.00	0	0.00
MONYWA	<24	262	99.24	2	0.76		0.00		0.00
	>=24	633	99.53	3	0.47		0.00		0.00
TAUNGGYI	<24	257	93.80	16	5.84		0.00	1	0.36
	>=24	505	91.82	43	7.82	2	0.36		0.00
YANGON	<24	169	98.83	2	1.17		0.00		0.00
	>=24	507	99.02	4	0.78	0	0.00	1	0.20

History of taking narcotic drugs

site	age	yes	%	no	%	dk	%
DAWEI	<24	2	0.98	266	99.25		0.00

	>=24	6	1.89	604	98.21	5	0.81
LASHIO	<24	5	1.19	259	98.11	0	0.00
	>=24	6	1.64	498	98.61	1	0.20
MANDALAY	<24	1	0.81	60	98.36	0	0.00
	>=24	1	0.59	122	99.19		0.00
MEIKHTILA	<24	1	1.37	166	98.22	2	1.18
	>=24	7	0.76	501	97.85	0	0.00
MONYWA	<24	2	1.10	259	98.11	3	1.14
	>=24	7	0.73	622	97.95	6	0.94
TAUNGGYI	<24	2	1.28	272	99.27	0	0.00
	>=24	7	2.92	541	98.72		0.00
YANGON	<24	5	1.38	166	97.08	0	0.00
	>=24	7	1.38	498	98.22	2	0.39

#### History of taking narcotic drugs intravenously

site	Age	Yes	%	no	%
DAWEI	<24	0	0.00	2	100.00
	>=24	1	20.00	4	80.00
LASHIO	<24	1	25.00	3	75.00
	>=24	2	28.57	5	71.43
MANDALAY	<24	0	0.00	1	100.00
	>=24	2	100.00	0	0.00
MEIKHTILA	<24	0	0.00	2	100.00
	>=24	1	7.69	12	92.31
MONYWA	<24				
	>=24	0	0.00	3	100.00
TAUNGGYI	<24	1	100.00	0	0.00
	>=24		0.00	5	83.33
YANGON	<24	3	60.00	2	40.00
	>=24	3	42.86	3	42.86

#### History of Marriage

Site	Age	Yes	%	No	%
DAWEI	<24	47	70.96248	224	82.656827
	>=24	435	16.236162	178	29.03752
LASHIO	<24	44	79.962193	227	83.763838
	>=24	423	14.754098	106	28.037807
MANDALAY	<24	9	72.357724	52	85.245962
	>=24	89	16.666667	34	27.642276
MEIKHTILA	<24	28	61.176471	140	83.333333
	>=24	312	12.547529	198	38.828529
MONYWA	<24	33	63.36478	230	87.452471
	>=24	403	24.363636	234	36.722453
TAUNGGYI	<24	67	78.584392	208	75.636364
	>=24	433	20	118	21.415608
YANGON	<24	35	69.087523	140	80
	>=24	371	69.087523	166	30.912477

#### History of sexual intercourse

Site	Age	Yes	%	No	%	don't ans	%
DAWEI	<24	44	16.36	224	83.27	1	0.37
	>=24	424	70.32	179	29.68	0	0.00
LASHIO	<24	42	15.79	222	83.46	2	0.75
	>=24	422	80.68	104	19.73	1	0.19
MANDALAY	<24	10	16.39	51	83.61		0.00
	>=24	95	76.61	29	23.39		0.00
MEIKHTILA	<24	27	16.56	135	82.82	1	0.61
	>=24	312	61.06	199	38.94		0.00
MONYWA	<24	35	13.26	229	86.74		0.00
	>=24	402	63.61	230	36.39		0.00
TAUNGGYI	<24	67	24.45	207	75.55		0.00

	>=24	432	78.40	119	21.60		0.00
YANGON	<24	37	23.57	120	76.43		0.00
	>=24	375	71.16	152	28.84		0.00

Age of first sexual intercourse

Mean	21.65±4.56	12--48	total- 2693
Dawei	21.73±4.40	range	14-43
Lashio	21.51±4.58		12-48
Mandalay	21.78±5.21		15-42
Myitkyina	21.78±5.03		12-46
Meiktila	21.42±4.62		14-36
Monywa	21.76±4.58		12-42
Taunggyi	21.11±4.24		12-39
Yangon	22.29±4.64		13-39

Respondents who have experienced sexual intercourse during one year

site	age	yes	%	no	%	don't ans	%
DAWEI	<24	40	86.96	6	13.04		0.00
	>=24	341	80.42	83	19.58		0.00
LASHIO	<24	35	83.33	7	16.67		0.00
	>=24	366	86.73	51	12.09	5	1.18
MANDALAY	<24	9	90.00	1	10.00		0.00
	>=24	90	93.75	6	6.25		0.00
MEIKHTILA	<24	21	65.63	10	31.25	1	3.13
	>=24	253	80.32	62	19.68		0.00
MONYWA	<24	24	77.42	7	22.58		0.00
	>=24	336	86.60	50	12.89	2	0.52
TAUNGGYI	<24	59	86.76	9	13.24		0.00
	>=24	353	82.09	76	17.67	1	0.23
YANGON	<24	35	94.59	1	2.70	1	2.70
	>=24	331	88.50	43	11.50		0.00

History of using condoms during last sex

site	age	yes	%	no	%	don't rem	%
Dawei	<24	0		2			
Lashio	>=24	0		2			
Mandalay	>=24	0		2			
Taunggyi	<24	0		1			

History of passing discharge from genitalia

site	age	yes	%	no	%	dk	%
DAWEI	<24	32	12.08	228	86.04	5	1.39
	>=24	74	12.13	516	84.59	20	3.28
LASHIO	<24	35	12.77	225	82.12	14	5.11
	>=24	93	17.29	420	78.07	25	4.65
MANDALAY	<24	12	20.69	46	79.31		0.00
	>=24	50	40.00	74	59.20	1	0.30
MEIKHTILA	<24	64	38.10	102	60.71	2	1.19
	>=24	175	34.38	331	65.03	3	0.59
MONYWA	<24	69	26.34	186	70.99	7	2.67
	>=24	140	22.05	484	76.22	11	1.73
TAUNGGYI	<24	34	12.36	234	85.09	7	2.55
	>=24	73	13.30	468	85.25	8	1.46
YANGON	<24	18	10.06	158	88.27	3	1.68
	>=24	59	10.97	470	87.36	9	1.67

History of genital ulcer during one year

site	age	yes	%	no	%	don't rem	%
DAWEI	<24	3	1.11%	266	98.52%	1	0.37%

	>=24	4	0.66%	605	99.18%	1	0.16%
LASHIO	<24	1	0.37%	269	98.53%	3	1.10%
	>=24	4	0.74%	527	97.96%	7	1.30%
MANDALAY	<24	1	1.69%	58	98.31%		0.00%
	>=24	5	4.03%	119	95.97%		0.00%
MEIKHTILA	<24						
	>=24	6	1.17%	506	98.64%	1	0.19%
MONYWA	<24	5	1.88%	260	97.74%	1	0.38%
	>=24	5	0.79%	626	98.74%	3	0.47%
TAUNGGYI	<24	0	0.00%	273	99.27%	2	0.73%
	>=24	6	1.09%	541	98.54%	2	0.36%
YANGON	<24	2	1.12%	177	98.88%		0.00%
	>=24	9	1.68%	522	97.39%	5	0.93%

#### Knowledge on condoms(using condoms prevent AIDS)

site	age	yes	%	no	%	dk	%
DAWEI	<24	125	49.21%	39	15.35%	89	35.04%
	>=24	251	45.80%	57	10.40%	240	43.80%
LASHIO	<24	123	55.16%	17	7.62%	83	37.22%
	>=24	294	65.48%	22	4.90%	133	29.62%
MANDALAY	<24	39	66.10%	4	6.78%	16	27.12%
	>=24	63	50.40%	19	15.20%	43	34.40%
MEIKHTILA	<24	68	46.26%	10	6.80%	69	46.94%
	>=24	191	44.01%	30	6.91%	213	49.08%
MONYWA	<24	66	27.97%	13	5.51%	157	66.53%
	>=24	186	32.75%	43	7.57%	339	59.68%
TAUNGGYI	<24	132	51.16%	37	14.34%	89	34.50%
	>=24	275	52.68%	72	13.79%	175	33.52%
YANGON	<24	81	45.51%	8	4.49%	89	50.00%
	>=24	260	49.34%	43	8.16%	224	42.50%

#### Misconception of mosquito bite

site	age	yes	%	no	%	dk	%
DAWEI	<24	52	20.39%	169	66.27%	34	13.33%
	>=24	109	19.89%	302	55.11%	137	25.00%
LASHIO	<24	29	12.89%	170	75.56%	26	11.56%
	>=24	66	14.63%	320	70.25%	65	14.41%
MANDALAY	<24	12	20.34%	43	72.88%	4	6.78%
	>=24	22	17.74%	85	68.55%	17	13.71%
MEIKHTILA	<24	39	26.53%	79	53.74%	29	19.73%
	>=24	100	22.83%	246	56.16%	92	21.00%
MONYWA	<24	52	21.67%	126	52.50%	62	25.83%
	>=24	93	16.32%	309	54.21%	168	29.47%
TAUNGGYI	<24	84	32.68%	140	54.47%	33	12.84%
	>=24	162	30.98%	266	50.86%	95	18.16%
YANGON	<24	23	12.85%	134	74.86%	22	12.29%
	>=24	86	16.23%	346	65.28%	98	18.49%

#### Concept: without sex prevents AIDS

site	age	yes	%	no	%	dk	%
DAWEI	<24	94	37.15%	96	37.94%	63	24.90%
	>=24	174	31.81%	202	36.93%	171	31.26%
LASHIO	<24	90	40.54%	62	27.93%	70	31.53%
	>=24	233	52.13%	113	25.28%	101	22.60%
MANDALAY	<24	19	32.20%	31	52.54%	9	15.25%
	>=24	44	36.36%	56	46.28%	21	17.36%
MEIKHTILA	<24	59	40.14%	30	20.41%	58	39.46%
	>=24	208	47.82%	98	22.53%	129	29.66%
MONYWA	<24	75	31.91%	40	17.02%	120	51.06%
	>=24	198	34.86%	117	20.60%	253	44.54%
TAUNGGYI	<24	101	39.61%	107	41.96%	47	18.43%



	>=24	248	47.33%	200	38.17%	76	14.50%
YANGON	<24	57	32.39%	53	30.11%	66	37.50%
	>=24	242	45.92%	136	25.81%	149	28.27%

Concept: sex with HIV(-) regular partner prevents AIDS

site	age	yes	%	no	%	dk	%
DAWEI	<24	26	10.28%	173	68.39%	54	21.34%
	>=24	34	6.20%	366	66.79%	148	27.01%
LASHIO	<24	17	7.69%	140	63.55%	64	28.96%
	>=24	38	8.50%	317	70.92%	92	20.58%
MANDALAY	<24	5	8.47%	46	77.97%	8	13.56%
	>=24	6	4.80%	101	80.80%	18	14.40%
MEIKHTILA	<24	6	4.11%	84	57.53%	56	38.36%
	>=24	38	8.72%	300	68.81%	98	22.48%
MONYWA	<24	10	4.20%	97	40.76%	131	55.04%
	>=24	37	6.53%	296	52.20%	234	41.27%
TAUNGGYI	<24	34	13.33%	194	76.08%	27	10.59%
	>=24	49	9.42%	424	81.54%	47	9.04%
YANGON	<24	12	6.94%	96	55.49%	65	37.57%
	>=24	30	5.70%	355	67.40%	141	26.81%

Misconception: eating together

site	age	yes	%	no	%	dk	%
DAWEI	<24	20	7.91%	207	81.82%	26	10.28%
	>=24	87	16.02%	359	66.11%	97	17.86%
LASHIO	<24	16	7.27%	178	80.91%	26	11.82%
	>=24	35	7.76%	353	78.27%	63	13.97%
MANDALAY	<24	6	10.53%	50	87.72%	1	1.75%
	>=24	13	10.57%	98	79.67%	12	9.76%
MEIKHTILA	<24	24	16.44%	100	68.49%	22	15.07%
	>=24	79	18.16%	291	66.90%	65	14.94%
MONYWA	<24	30	12.82%	166	70.94%	38	16.24%
	>=24	88	15.49%	382	67.25%	98	17.25%
TAUNGGYI	<24	38	14.79%	203	78.99%	16	6.23%
	>=24	85	16.19%	404	76.95%	36	6.86%
YANGON	<24	9	5.06%	158	88.76%	11	6.18%
	>=24	39	7.44%	424	80.92%	61	11.64%

Concept: used needles

site	age	yes	%	no	%	dk	%
DAWEI	<24	226	88.28%	14	5.47%	16	6.25%
	>=24	476	86.55%	22	4.00%	52	9.45%
LASHIO	<24	199	88.44%	13	5.78%	13	5.78%
	>=24	395	87.97%	10	2.23%	44	9.80%
MANDALAY	<24	56	96.55%	0	0.00%	2	3.45%
	>=24	113	92.62%	3	2.46%	6	4.92%
MEIKHTILA	<24	130	88.44%	9	6.12%	8	5.44%
	>=24	387	88.97%	20	4.60%	28	6.44%
MONYWA	<24	213	89.12%	11	4.60%	15	6.28%
	>=24	497	87.35%	23	4.04%	49	8.61%
TAUNGGYI	<24	235	91.44%	14	5.45%	8	3.11%
	>=24	497	94.51%	19	3.61%	11	2.09%
YANGON	<24	171	95.53%	2	1.12%	6	3.35%
	>=24	492	92.48%	23	4.32%	17	3.20%

Concept: a healthy person may have HIV

site	age	yes	%	no	%	dk	%
DAWEI	<24	120	46.88%	30	11.72%	106	41.41%
	>=24	231	42.00%	71	12.91%	248	45.09%
LASHIO	<24	105	46.88%	39	17.41%	80	35.71%
	>=24	215	47.67%	53	11.75%	183	40.58%
MANDALAY	<24	47	79.66%	1	1.69%	11	18.64%

	>=24	97	78.23%	3	2.42%	24	19.35%
MEIKHTILA	<24	36	24.49%	54	36.73%	57	38.78%
	>=24	150	34.25%	139	31.74%	149	34.02%
MONYWA	<24	82	34.17%	35	14.58%	123	51.25%
	>=24	149	26.05%	89	15.56%	334	58.39%
TAUNGGYI	<24	154	59.69%	53	20.54%	51	19.77%
	>=24	304	57.79%	121	23.00%	101	19.20%
YANGON	<24	105	58.97%	18	10.11%	55	30.90%
	>=24	272	51.17%	68	12.78%	192	36.09%

Concept:HIV(+) pregnant mother transmit to baby

site	age	yes	%	no	%	dk	%
DAWEI	<24	217	84.77%	12	4.69%	27	10.55%
	>=24	450	81.67%	11	2.00%	90	16.33%
LASHIO	<24	179	80.27%	10	4.48%	34	15.25%
	>=24	383	85.11%	12	2.67%	55	12.22%
MANDALAY	<24	54	91.53%	1	1.69%	4	6.78%
	>=24	107	86.99%	5	4.07%	11	8.94%
MEIKHTILA	<24	111	75.51%	14	9.52%	22	14.97%
	>=24	355	81.61%	29	6.67%	51	11.72%
MONYWA	<24	176	73.33%	8	3.33%	56	23.33%
	>=24	426	74.48%	23	4.02%	123	21.50%
TAUNGGYI	<24	216	83.40%	21	8.11%	22	8.49%
	>=24	462	87.83%	28	5.32%	36	6.84%
YANGON	<24	145	82.39%	9	5.11%	22	12.50%
	>=24	444	83.93%	17	3.21%	68	12.85%

Concept: HIV transmission to baby through breast feeding

site	age	yes	%	no	%	dk	%
DAWEI	<24	200	78.13%	16	6.25%	40	15.63%
	>=24	422	76.73%	24	4.36%	104	18.91%
LASHIO	<24	143	63.84%	26	11.61%	55	24.55%
	>=24	301	67.04%	61	13.59%	87	19.38%
MANDALAY	<24	50	84.75%	6	10.17%	3	5.08%
	>=24	98	79.03%	11	8.87%	15	12.10%
MEIKHTILA	<24	109	74.15%	11	7.48%	27	18.37%
	>=24	315	72.25%	52	11.93%	69	15.83%
MONYWA	<24	160	66.67%	12	5.00%	68	28.33%
	>=24	409	71.56%	28	4.90%	135	23.60%
TAUNGGYI	<24	180	69.50%	32	12.36%	47	18.15%
	>=24	410	77.80%	55	10.44%	62	11.76%
YANGON	<24	124	70.45%	14	7.95%	38	21.59%
	>=24	396	74.86%	39	7.37%	94	17.77%

## Second Generation Surveillance (Male 2003)

Site = Dawei, Lashio, Mandalay, Yangon

### Total number of Respondents by site

site	Freq:	Percent
DAWEI	820	33.58
LASHIO	821	33.62
MANDALAY	186	7.62
YANGON	615	25.18
Total	2,442	100

### Age of Respondents (Years)

Mean – 29.91± 9.67

Range – 15-45

### Total No of Youth Respondents (<24 yr)

Number = 878 (36.18%)

### Age of First Marriage

Total            -24.02±4.78    (14-46)

Dawei -            23.69±5.0    (15-45)

Lashio-           24.03± 5.00   (15-39)

Mandalay-       22.78± 4.16   (16-35)

Yangon-           24.90±4.97   (15-46)

### Level of Education

Level of education	Dawei (%)	Lashio(%)	Mandalay(%)	Yangon(%)
illiterate	6 (0.74)	161 (20.23)	5 (2.69)	6 (0.99)
just only read & write	60 (7.35)	105 (13.19)	18 (9.68)	13 (2.13)
passed 1 <sup>st</sup> to 4 <sup>th</sup> Std	308(37.75)	193 (24.25)	48(25.81)	67 (11.00)
passed 5 <sup>th</sup> to 8 <sup>th</sup> Std	254(31.13)	164 (20.60)	48 (25.81)	195 (32.02)
passed 9 <sup>th</sup> to 10 <sup>th</sup> Std	149(18.26)	128 (16.08)	42 ( 22.58)	207 (33.99)
1 <sup>st</sup> yr to last yr of University/ Colleges	24(2.94)	26 (3.27)	15 (8.06)	49 (8.05)
Graduated	15(1.84)	19 (2.39)	10 (5.38)	72 (11.82)

### History of Taking Liquor during one Year

Site	Age (yr)	Nil (%)	<1/wk (%)	1/wk (%)	>1/wk (%)	Daily (%)
Dawei	>24	250(48.73)	138(26.90)	39(7.60)	36(7.02)	50(9.75)
	<25 (youth)	200(65.79)	85(27.96)	8 (2.63)	8 (2.63)	3 (0.99)
Lashio	>24	169(33.73)	141(28.14)	94 (18.76)	53 (10.58)	44 (8.78)
	<25 (youth)	154 (51.33)	88 (29.33)	37 (12.33)	17 (5.67)	4 (1.33)
Mandalay	>24	39 (37.50)	33 (31.73)	12 (11.54)	15 (14.42)	5 (4.81)
	<25 (youth)	48 (58.54)	29 (35.37)	2 (2.44)	1 (1.22)	2 (2.44)
Yangon	>24	196(46.45)	119(28.20)	57 (13.51)	23 (5.45)	27 (6.40)
	<25 (youth)	127(67.55)	41(21.81)	18 (9.57)	2 (1.06)	0 (0.00)

### History of Taking Narcotic Drugs

Site	Age (yr)	Yes(%)	No(%)	Don't know(%)	Don't answer(%)
Dawei	>24	38(7.45)	472(92.55)	0(0.00)	0(0.00)
	<25 (youth)	16 (5.23)	290(94.77)	0(0.00)	0(0.00)
Lashio	>24	31(6.24)	457(91.95)	8(1.61)	1(0.20)
	<25 (youth)	12 (4.01)	284(94.98)	2 (0.67)	1 (0.33)
Mandalay	>24	3 (2.91)	100 (97.09)	0(0.00)	0(0.00)
	<25 (youth)	1 (1.23)	80 (98.77)	0(0.00)	0(0.00)
Yangon	>24	9 (2.21)	398 (97.79)	0(0.00)	0(0.00)
	<25 (youth)	0(0.00)	185 (99.46)	1(0.54)	0(0.00)

### History of Taking Narcotic Drugs Intravenously

Site	Age(yr)	Yes (%)	No (%)
Dawei	>24	4 (11.11)	32 (88.89)
	<25 (youth)	0	15 (100.00)
Lashio	>24	2 (7.14)	26 (92.86)
	<25 (youth)	1 (8.33)	11 (91.67)
Mandalay	>24	0	3 (100.00)
	<25 (youth)	1(100.00)	0
Yangon	>24	6 (85.71)	1 (14.29)
	<25 (youth)	-	-

### History of Marriage

Site	Age (Yr)	Yes (%)	No (%)
Dawei	>24	402 (78.67)	109 (21.33)
	<25 (youth)	45 (14.71)	261 (85.29)
Lashio	>24	350 (70.56)	146 (29.44)
	<25 (youth)	35 (11.74)	263 (88.26)
Mandalay	>24	77 (74.04)	27 (25.96)
	<25 (youth)	12 (14.81)	69 (85.19)
Yangon	>24	300 (72.64)	113 (27.36)
	<25 (youth)	18 (9.57)	170 (90.43)

### History of Sexual Intercourse

Site	Age (yr)	Yes (%)	No (%)	Don't answer (%)
Dawei	>24	423 (83.43)	84 (16.57)	-
	<25 (youth)	63 (20.72)	241 (79.28)	-
Lashio	>24	379 (76.10)	115 (23.09)	4 (0.80)
	<25 (youth)	53 (17.79)	240 (80.54)	5 (1.68)
Mandalay	>24	82 (82.83)	17 (17.17)	-
	<25 (youth)	21 (25.93)	60 (74.07)	-
Yangon	>24	299 (73.11)	109 (26.65)	1 (0.24)
	<25 (youth)	37 (19.68)	149 (79.26)	2 (1.06)

### Age of First Sexual Intercourse

Dawei - 22.43 (13-45)  
 Lashio - 22.81 (14-39)  
 Mandalay - 21.14 (14-35)  
 Yangon - 23.83 (15-46)

### Respondents Who Have Regular Sexual Partners during One Year

Site	Age (Yr)	Yes (%)	No(%)	Don't answer(%)
Dawei	>24	60 (11.70)	453 (88.30)	-
	<25 (youth)	14 (4.58)	292 (95.42)	-
Lashio	>24	86 (17.34)	403 (81.25)	7 (1.41)
	<25 (youth)	16 (5.35)	280 (93.65)	3 (1.00)
Mandalay	>24	3 (2.88)	101 (97.12)	-
	<25 (youth)	7 (8.86)	72 (91.94)	-
Yangon	>24	38 (9.29)	370 (90.46)	1 (0.24)
	<25 (youth)	7 (3.85)	174 (95.60)	1 (0.55)

### History of Using Condoms during Last Sex

Site	Age (yr)	Yes (%)	No (%)	Don't remember(%)
Dawei	>24	3 (5.08)	56 (94.92)	-
	<25 (youth)	5 (35.71)	9 (64.29)	-
Lashio	>24	17 (21.25)	61 (76.25)	2 (2.50)
	<25 (youth)	10 (62.50)	6 (37.50)	-
Mandalay	>24	3 (100.00)	0 (0.00)	-
	<25 (youth)	4 (50.00)	4 (50.00)	-
Yangon	>24	4 (11.11)	32 (88.89)	-
	<25 (youth)	5 (71.43)	2 (28.57)	-

### Frequency of Using Condoms during One Year

Frequency	Dawei		Lashio		Mandalay		Yangon	
	>24	<25 (youth)	>24	<25 (youth)	>24	<25 (youth)	>24	<25 (youth)
Every time (%)	1 (3.33)	4 (100.00)	7 (46.67)	7 (70.00)	2 (66.67)	1 (25.00)	2 (50.00)	4 (100.00)
Nearly every times(%)	1 (3.33)	0 (0.00)	1 (6.67)	2 (20.00)	0 (0.00)	1 (25.00)	-	-
Sometimes (%)	1 (3.33)	0 (0.00)	7 (46.67)	1 (10.00)	1 (33.33)	2 (50.00)	2 (50.00)	0 (0.00)

### History of Sex with CSW during One Year

Site	Age (yr)	Yes (%)	No (%)	Don't answer(%)
Dawei	>24	7 (1.36)	506 (98.64)	-
	<25 (youth)	8 (2.61)	298 (97.39)	-
Lashio	>24	19 (3.83)	471 (94.96)	6 (1.21)
	<25 (youth)	10 (3.36)	285 (95.64)	3 (1.01)
Mandalay	>24	10 (9.62)	94 (90.38)	-
	<25 (youth)	5 (6.25)	75 (93.75)	-
Yangon	>24	27 (6.65)	379 (93.35)	-
	<25 (youth)	7 (3.78)	178 (96.22)	-

### Using Condoms in Last Sex with CSW

Site	Age (yr)	Yes (%)	No (%)	Don't remember(%)
Dawei	>24	3 (42.86)	4 (57.14)	-
	<25 (youth)	8 (100.00)	0	-
Lashio	>24	11(61.11)	3 (16.67)	4 (22.22)
	<25 (youth)	8 (88.89)	0	1 (11.11)
Mandalay	>24	8 (80.00)	2 (20.00)	-
	<25 (youth)	4 (80.00)	1 (20.00)	-
Yangon	>24	20 (71.43)	8 (28.57)	-
	<25 (youth)	5 (71.43)	2 (28.57)	-

### Frequency of Using Condoms with CSW during One Year

Frequency	Dawei		Lashio		Mandalay		Yangon	
	>24	<25 (youth)	>24	<25 (youth)	>24	<25 (youth)	>24	<25 (youth)
Every time(%)	2 (66.67)	7 (87.50)	3 (20.00)	6 (66.67)	6 (75.00)	1 (25.00)	13 (72.22)	3 (100.00)
Nearly every times(%)	1 (33.33)	1 (12.50)	-	-	0	1 (25.00)	4 (22.22)	0
Sometimes(%)	-	-	5 (33.33)	0	2 (25.00)	2 (50.00)	1 (5.56)	0
Don't answer(%)	-	-	0	1(11.11)	-	-	-	-

### History of Sex with Casual Acquaintances

Site	Age(yr)	Yes (%)	No (%)	Don't answer (%)
Dawei	>24	38(7.41)	475(92.59)	0
	<25 (youth)	6(1.96)	300(98.04)	0
Lashio	>24	63(12.65)	430(86.35)	5(1.00)
	<25 (youth)	6(2.01)	290(96.99)	3(1.00)
Mandalay	>24	7(6.73)	97(93.27)	0
	<25 (youth)	4(5.06)	75(94.94)	0
Yangon	>24	27(6.72)	374(93.03)	1(0.25)
	<25 (youth)	1(0.55)	181(99.45)	0

### Using Condoms in Last Sex with CA

Site	Age(yr)	Yes(%)	No(%)	Don't remember(%)	Don't answer(%)
Dawei	>24	1(2.63)	37(97.37)	0	0
	<25 (youth)	4(66.67)	2(33.33)	0	0
Lashio	>24	9(14.75)	50(81.97)	1(1.64)	1(1.64)
	<25 (youth)	2(40.00)	3(60.00)	0	0
Mandalay	>24	2(28.57)	5(71.43)	0	0
	<25 (youth)	3(75.00)	1(25.00)	0	0
Yangon	>24	5(18.52)	21(77.78)	0	1(3.70)
	<25 (youth)	1(100.00)	0	0	0

### Frequency of Using Condoms with CA during One Year

Frequency	Dawei		Lashio		Mandalay		Yangon	
	>24	<25 (youth)	>24	<25 (youth)	>24	<25 (youth)	>24	<25 (youth)
Every time (%)	0	3 (75.00)	4 (36.36)	2 (66.67)	2 (100.00)	1 (33.33)	2 (33.33)	1 (100.00)
Nearly every times(%)	1 (100.00)	0	0	0	0	1 (33.33)	0	0
Sometimes (%)	0	0	7 (63.64)	1 (33.33)	0	1 (33.33)	3 (50.00)	0
Never Use (%)	0	1 (25.00)	0	0	0	0	0	0
Don't answer (%)	0	0	0	0	0	0	1 (16.67)	0

### History of Passing Discharge from Genitalia

Site	Age(yr)	Yes(%)	No(%)
Dawei	>24	6 (1.18)	502(98.82)
	<25 (youth)	5 (1.64)	300(98.36)
Lashio	>24	13 (2.73)	464(97.27)
	<25 (youth)	2 (0.70)	284(99.30)
Mandalay	>24	0	103(100.00)
	<25 (youth)	2 (2.53)	77(97.47)
Yangon	>24	8(2.04)	385(97.96)
	<25 (youth)	3 (1.74)	169(98.26)

### History of Genital Ulcer during One Year

Site	Age(yr)	Yes(%)	No(%)
Dawei	>24	10(1.97)	497(98.03)
	<25 (youth)	5(1.64)	300(98.36)
Lashio	>24	5(1.05)	473(98.95)
	<25 (youth)	2(0.70)	285(99.30)
Mandalay	>24	0(0.00)	102(100.00)
	<25 (youth)	1(1.27)	78(98.73)
Yangon	>24	4(1.02)	389(98.98)
	<25 (youth)	2(1.16)	170(98.84)

### Knowledge on Condoms (using condoms prevent AIDS)

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	334(67.20)	61(12.27)	102(20.52)
	<25 (youth)	219(73.74)	22(7.41)	56(18.86)
Lashio	>24	203(56.86)	55(15.41)	99(27.73)
	<25 (youth)	126(63.32)	32(16.08)	41(20.60)
Mandalay	>24	71(70.30)	4(3.96)	26(25.74)
	<25 (youth)	62(76.54)	4(4.94)	15(18.52)
Yangon	>24	296(74.56)	32(8.06)	69(17.38)
	<25 (youth)	112(65.12)	14(8.14)	46(26.74)

### Misconceptions (Mosquito Bite)

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	125(25.10)	295(59.24)	78(15.66)
	<25 (youth)	89(30.17)	175(59.32)	31(10.51)
Lashio	>24	61(17.13)	235(66.01)	60(16.85)
	<25 (youth)	25(12.56)	152(76.38)	22(11.06)
Mandalay	>24	21(20.79)	55(54.46)	25(24.75)
	<25 (youth)	23(28.75)	43(53.75)	14(17.50)
Yangon	>24	73(17.80)	285(69.51)	52(12.68)
	<25 (youth)	22(12.36)	127(71.35)	29(16.29)



**Concept:**(without sex prevents AIDS)

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	150(30.43)	297(60.24)	46(9.33)
	<25 (youth)	98(33.33)	175(59.52)	21(7.14)
Lashio	>24	154(43.14)	112(31.37)	91(25.49)
	<25 (youth)	91(45.96)	64(32.32)	43(21.72)
Mandalay	>24	52(53.61)	30(30.93)	15(15.46)
	<25 (youth)	46(57.50)	24(30.00)	10(12.50)
Yangon	>24	183(46.56)	159(40.46)	51(12.98)
	<25 (youth)	78(45.09)	55(31.79)	40(23.12)

**Concept:**(Sex with[HIV (-)] Regular Partner Prevents AIDS)

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	37(7.41)	417(83.57)	45(9.02)
	<25 (youth)	13(4.38)	258(86.87)	26(8.75)
Lashio	>24	40(11.17)	234(65.36)	84(23.46)
	<25 (youth)	31(15.58)	127(63.82)	41(20.60)
Mandalay	>24	4(3.96)	84(83.17)	13(12.87)
	<25 (youth)	3(3.70)	71(87.65)	7(8.64)
Yangon	>24	20(5.09)	322(81.93)	51(12.98)
	<25 (youth)	4(2.34)	116(67.84)	51(29.82)

**Misconception:** (eating together)

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	67(13.43)	371(74.35)	61(12.22)
	<25 (youth)	45(15.10)	224(75.17)	29(9.73)
Lashio	>24	45(12.50)	248(68.89)	67(18.61)
	<25 (youth)	26(12.87)	154(76.24)	22(10.89)
Mandalay	>24	10(9.90)	77(76.24)	14(13.86)
	<25 (youth)	8(9.88)	68(83.95)	5(6.17)
Yangon	>24	35(8.52)	341(82.97)	35(8.52)
	<25 (youth)	14(7.78)	134(74.44)	32(17.78)

**Concept:**(used needles)

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	470(94.57)	15(3.02)	12(2.41)
	<25 (youth)	285(95.64)	7(2.35)	6(2.01)
Lashio	>24	282(78.55)	38(10.58)	39(10.86)
	<25 (youth)	160(79.60)	16(7.96)	25(12.44)
Mandalay	>24	92(91.09)	0(0.00)	9(8.91)
	<25 (youth)	71(87.65)	6(7.41)	4(4.94)
Yangon	>24	376(93.07)	9(2.23)	19(4.70)
	<25 (youth)	149(85.14)	4(2.29)	22(12.57)

**Concept:** A Healthy Person may have HIV

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	234(47.27)	94(18.99)	167(33.74)
	<25 (youth)	160(54.24)	46(15.59)	89(30.17)
Lashio	>24	129(35.93)	91(25.35)	139(38.72)
	<25 (youth)	75(37.69)	53(26.63)	71(35.68)
Mandalay	>24	41(40.59)	11(10.89)	49(48.51)
	<25 (youth)	23(28.40)	14(17.28)	44(54.32)
Yangon	>24	204(50.57)	60(14.93)	138(34.33)
	<25 (youth)	77(44.51)	17(9.83)	79(45.66)

**Concept:** HIV(+) Pregnant Mother Transmit to Baby

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	432(87.63)	28(5.68)	33(6.69)
	<25 (youth)	248(84.35)	17(5.78)	29(9.86)
Lashio	>24	244(68.93)	33(9.32)	77(21.75)
	<25 (youth)	137(68.50)	24(12.00)	39(19.50)
Mandalay	>24	80(79.21)	6(5.94)	15(14.85)
	<25 (youth)	62(77.50)	6(7.50)	12(15.00)
Yangon	>24	328(84.54)	12(3.09)	48(12.37)
	<25 (youth)	138(80.23)	6(3.49)	28(16.28)

**Concept:** HIV Transmission to Baby through Breast Feeding

Site	Age(yr)	Yes(%)	No(%)	Don't know(%)
Dawei	>24	395(80.12)	49(9.94)	49(9.94)
	<25 (youth)	216(72.48)	46(15.44)	36(12.08)
Lashio	>24	170(47.75)	66(18.54)	120(33.71)
	<25 (youth)	100(50.25)	43(21.61)	56(28.14)
Mandalay	>24	62(61.39)	12(11.88)	27(26.73)
	<25 (youth)	56(69.14)	8(9.88)	17(20.99)
Yangon	>24	267(66.58)	52(12.97)	82(20.45)
	<25 (youth)	115(65.34)	19(10.80)	42(23.86)