Integrated Biological and
Behavioral Surveillance
(IBBS) Survey among Men
who have Sex with Men
(MSM) and Transgender (TG)
People in Kathmandu Valley,
Nepal

Round IV - 2012



Ministry of Health and Population National Centre for AIDS and STD Control Teku, Kathmandu

Integrated Biological and Behavioral Surveillance (IBBS) Survey among Men who have Sex with Men (MSM) and Transgender (TG) People in Kathmandu Valley, Nepal

Round IV - 2012

Field work conducted by:



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Dr Naresh Pratap KC Director

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LIST OF BBREVIATIONS

AIDS Acquired Immuno-Deficiency Syndrome

BDS Blue Diamond Society
CC Counseling Center

CCST Community Care Support and Treatment

CE Community Educator

CHBC Community Home Based Care

CI Confidence Interval
CM Community Mobilizer
CT Chlamydia Trachomatis

DIC Drop-in-Center

DNA Deoxyribonucleic Acid

ELISA Enzyme Linked Immuno Assays
EPP Estimated Population Proportion
EQA External Quality Assessment

FSW Female Sex Worker

HIV Human Immuno-Deficiency Virus

IBBS Integrated Biological and Behavioral Surveillance Survey

IC Information Center
ID Identification Number
PWID People Who Inject Drugs

IEC Information, Education and Communication

MARP Most-at-Risk Population

MSM Men who have Sex with Men

MSW Male Sex Worker

NCASC National Center for AIDS and STD Control

NG Neisseria Gonorrhoea

NGO Non- Government Organization
NHRC Nepal Health Research Council
NPHL National Public Health Laboratory
NRL National Reference Laboratory

OE Outreach Educator
PE Peer Educator

RDS Respondent Driven Sampling

RDSAT Respondent Driven Sampling Analysis Tools

RPR Rapid Plasma Reagin

SACTS STD/AIDS Counseling and Training Services

SLC School Leaving Certificate

SPSS Statistical Package for the Social Science

STD Sexually Transmitted Disease
STI Sexually Transmitted Infection

TPPA Treponema Pallidum Particle Agglutination

USAID United States Agency for International Development

VCT Voluntary Counselling and Testing of HIV

EXECUTIVE SUMMARY

Under the national plan on HIV and STI surveillance, National Center for AIDS and STD Control (NCASC) has been conducting Integrated Biological and Behavioral Surveillance Surveys (IBBS) among the key population at higher risk at regular intervals. These surveillance studies are aimed at measuring the prevalence of HIV and sexually transmitted infections (STIs) among key population at higher risk and assessing their health risk behaviors as well as monitoring epidemic and behavioral trends to inform the HIV response in Nepal.

This IV round of IBBS survey recruited 400 men who have sex with men (MSM) and transgender people (TG) in Kathmandu Valley (Kathmandu, Lalitpur and Bhaktapur). The respondent-driven sampling (RDS) methodology was adopted to recruit the possible survey participants. This survey was carried out primarily to determine)] among MSM in the Kathmandu Valley and to assess their HIV/STI-related risk behaviors, including their sexual practices. The survey also aimed to measure their exposure to the intervention programs targeted at MSM/TG in the valley. At the same time, it has sought to analyze trends through the comparison of data on selected variables obtained from first, second, third and fourth rounds of the IBBS.

Lab testing and structured questionnaire was used to collect both biological and behavioral information such as prevalence of HIV and STIs [syphilis, chlamydia trachomatis (CT) and Neisseria gonorrhoea (NG) including socio demographics, sexual behaviors, HIV awareness, psychosocial factors and access to prevention programs. Survey participants were enrolled in the Survey only after getting oral informed and witnessed consent. Interview using the structured questionnaire was followed by a clinical examination by a health assistant and the collection of blood, urine and anal swab samples for biological testing of HIV, syphilis, Chlamydia Trachomatis(CT) and Neisseria Gonorrhoea(NG). The survey was carried out through one centrally-located Survey center at Jamal in the Kathmandu Valley. Biological samples were collected only after a pre-test counseling session and the survey participants were provided syndromic treatment for STI- related. Handover of HIV and syphilis test results were followed by post-test counseling.

Data analysis was done using the SPSS and Respondent Driven Sampling Analysis Tools (RDSAT) software. HIV prevalence was analyzed using RDSAT. Pull-in outlier option was used in RDSAT to eliminate extremely small and large outliers in network sizes. When the program encounters an individual whose network size is outside of the specified bounds, their network size was set to the value of nearest lower or upper bound (percentage) with the help of pull-in outliers option. To be consistent with previous rounds of survey, the RDSAT analysis for this Survey used 5 percent pull-in outliers of network size.

Key Findings

HIV and STI Prevalence

- HIV prevalence among MSM/TG in the Kathmandu Valley in 2012 is 3.8 percent (N=400)
 [MSW/TG-SW=6.8%; non-MSW/TG-non-SW=2.9%]
- The overall prevalence of at least one STI was 10.8 percent among MSMs in the valley. MSW (18.5%) had significantly high prevalence of at least one STI than non-MSWs (6.8%).

Moreover 0.8 percent of MSM had active syphilis, while 2.5 percent had a history of syphilis. Overall, 2.8 percent of MSM had anal NG with a relatively high prevalence among MSWs (4.4%) than non-MSWs (1.9%). The prevalence of anal CT was 3.0% percent among MSWs and non-MSWs.

Socio-demographic Characteristics

- MSM/TG in the Kathmandu Valley are mostly young. The majority of respondents were below
 the age of 30 years (74.8% MSWs and 71.3% non-MSWs) with nearly two in ten (17.3%) below
 20 years of age (16.3% MSWs and 17.7% non-MSWs). Twenty sevenpercent of MSM were
 currently married. However, of those who were currently married, 20 percent MSWs and 16
 percent non-MSWs were married to a male partner.
- A relatively low proportion of MSM/TG (24.5%) reported living with a regular partner. Among those living with a regular partner, most non-MSWs lived with female partners (53.8%), whereas the majority of the MSWs regular partners were male (69.7%).
- Almost 29 percent of MSM had attended School Leaving Certificate (SLC) or a higher level of studies. Three percent of MSM/TG were illiterate, while the same proportion were literate with no formal education.

Use of Alcohol and Illicit Drugs

Eight out of ten MSM/TG (80.8%) had consumed alcohol in the last month. At the same time, 26.3 percent of MSM/TG also had used drugs in the past year. More non-MSWs (28.3%) than MSWs (22.2%) had used drugs in the year preceding the survey. The most common drugs used by them (80.0%) was marijuana, locally called *ganja*. While very few had injected drugs intravenously in the past year (2%).

Sexual Behavior, Type of Partner and Condom Use

- MSM/TG reported having their first sexual encounter at young age. Six in ten (61.0%) had sex before the age of 17. More MSM/TG (73.3%) had their first sexual experience with a male partner than with a female partner (26.8%). More MSWs than non-MSWs had their sexual debut both before the age of 17 (73.3% MSWs and 54.7% non-MSWs) and with a male partner (81.5% MSWs and 69.1% non MSWs). The average age of respondents when they sold sex for the first time was 19 years.
- The predominant sex practice among MSM was anal sex followed by oral sex. Overall, 91.3 percent had practiced anal sex in the past month. Most of the survey respondents were *meti* (who perform receptive role during anal sex).
- Overall, consistent condom use was highest with a paid female sex partner (86.7%) followed by regular paying male sex partner (86.7%) and lowest with a non-paying female sex partner (35.3%) in the month preceding the survey. The majority of the respondents (91.8%) could get condoms whenever necessary, and 35.8 percent of those who had obtained their last condom from various sources had got it free of cost.
- Almost eight in ten MSM/TG (78.8%) had used lubricants before the survey.

STI and HIV/AIDS Awareness

- Overall, 13.5 percent of MSM/TG could not correctly name any symptoms of STIs in men.
 Reportedly 20.3 percent had experienced at least one symptoms of STI in the past year.
 Among them 29 percent did not seek any treatment for their STI symptoms.
- Sixty percent of MSM (62.2% MSW and 58.9% non-MSWs) had knowledge of all three major HIV/AIDS preventive measures, such as abstinence from sexual contact, 'A'; being faithful to one partner, 'B'; and condom use during each incidence of sexual contact, 'C'. Meanwhile, 59.3 percent of MSM/TG were aware of 'B,C,D,E,F' (a healthy looking person can be infected with HIV, 'D'; a person cannot get the HIV virus from a mosquito bite, 'E'; and sharing meal with an HIV-infected person does not transmit the HIV virus, 'F').
- Almost 73 percent of the respondents were aware of a confidential HIV test facility. Moreover, 62.5 percent of MSM had taken an HIV test before the survey. Among them, 97.6 percent had taken the test within the year preceding the survey. A higher proportion of MSWs (78.5%) than non-MSWs (54.3%) had taken up HIV testing.

Prevalence of Distress and Depression

The prevalence of depression and distress was very high (50.2%). Five out of every 10 MSM/TG were experiencing distress and depression.

Exposure to HIV/AIDS Related Programs

• In the past year, seventy-one percent of MSM/TG had met peer/outreach educators, 60.2 percent had visited drop-in center (DIC), and 78.5 percent had participated in at least one HIV/STI awareness program/community event. VCT centers had been visited by 44.8 percent respondents. A relatively smaller proportion of them (16.3%) had visited an STI clinic in the year preceding the survey. More MSWs than non-MSWs were exposed to or had participated in interventions (outreach centre, HIV testing and counseling).

CHAPTER 1

INTRODUCTION

1.1 Background

HIV has been one of the most serious public health concerns in Nepal. Ever since the reporting of the first case of HIV in Nepal in 1988, HIV prevalence and incidence has been on the rise (Nepal was able to reduce its HIV by 25% in last 10 years, so how come it is on rise. UNAIDS estimates indicate that approximately 50,200 people [2011] in Nepal are HIV-positive. As of 15 July 2012, a cumulative total of 20,583 (13,157 male and 7,417 female and 9 TG) HIV positive cases have been reported in Nepal (NCASC, July 15, 2012). Key population at higher Risk for HIV in Nepal include sex workers (FSW, MSW) and their clients as well as their immediate sex partners, people who inject drugs (PWIDs), migrant workers and men who have sex with men (MSM). Although overall general prevalence for HIV is around 0.3% for Nepal; among key population at higher risk groups the prevalence rate is much higher.

The IBBS surveys are conducted at regular intervals in Nepal. Latest IV round (2012) of the IBBS survey was conducted in MSM/TG population in Kathmandu. HIV prevalence among MSM/TG in the Kathmandu Valley in 2009 was 3.8 percent. Seven of the 135 MSWs (5.2%) and eight out of 265 non-MSWs (3%) had HIV. The overall prevalence of at least one STI was 21.5 percent among MSM in the valley. MSWs (31.9%) had significantly high prevalence of at least one STI than non-MSWs (16.2%) . MSM is one of the key HIV-risk groups, because of their high-risk sexual behaviors among their partners. The prevalence data drawn throughout the previous IBBS are summarized below:

Table 1: HIV and STI prevalence among MSM in Kathmandu Valley, Nepal: 2004-2009

Survey Year	General Prev	alence HIV (%)	General Prevalence Syphilis (%)		
	MSW	Non MSW	MSW	Non MSW	
2004	4.8	3.6	54	19	
2007	3.4	2.9	19.4	16.4	
2009	5.2	3	31.9	16.2	

1.2 Objectives of the Survey

In line with the objectives of the previous rounds of the IBBS, the fourth round of the Survey was also undertaken primarily to determine the levels of HIV and STI prevalence and risk behavior among MSM sub-population in Kathmandu and their behavioral links with general population or other groups with high-risk behaviors. In addition, this Survey collected specific information on MSM/TG; their sociodemographic characteristics, the level of awareness about HIV/STIs, as well as their exposure to intervention programs.

The specific objectives include:

- 1) To determine the trends of HIV and STI prevalence in MSM/TG population of Kathmandu Valley.
- 2) To assess HIV and STI [syphilis, Chlamydia trachomatis (CT) and Neisseria gonorrhoea (NG)] related risk behavior among the above mentioned population.
- 3) To collect information related to socio-demographic characteristics drug using and needle sharing behaviors; sexual behavior including knowledge and use of condoms; knowledge of HIV/AIDS; knowledge and treatment of STIs; exposure of MSM/TG to available HIV/STI services in selected Survey areas.
- 4) To explore the association between the risk behaviors and HIV and other specified sexually transmitted infections among the MSM/TG population.

CHAPTER 2

METHODOLOGY

2.1 Survey Population

MSM/TG belongs to one of the most at risk population groups for the transmission of HIV/STI infection. MSM/TG from the three districts of Kathmandu valley viz., Kathmandu, Lalitpur and Bhaktapur are eligible participants for the Survey. MSM/TG Survey participants were categorized into two sub-groups: MSWs and non-MSWs.

<u>MSWs/TG-SWs</u> were defined as: 'Those males aged 16 years or above who have had sexual relations, (either oral or anal) with another male in the 12 months preceding the survey in exchange for money or other commodities and self-identified as either trans gender or MSM'.

<u>Non-MSWs/TG non-SWs were defined as</u>: 'Those males aged 16 years or above who have had sexual relations (either oral or anal) with another male in the 12 months preceding the survey without receiving cash payment or other commodities and self-identified as TG or MSM'.

2.2 Survey Sites

As in the previous rounds a total of 400 MSM/TG (135 MSWs/TG and 265 non-MSWs/TGS) from the three districts of Kathmandu, Lalitpur and Bhaktapur were included in the Survey. Data collection site was set up in close proximity to the clusters with easy access to participating respondents. Survey center was established in Jamal, Kathmandu. The research site had 8 separate rooms with initial greeting and registration area, clinical observation area laboratory testing area, counseling and interview room. Each of these rooms had appropriate and effective Information, Education and Communication (IEC) materials to provide information on HIV and STI.

2.3 Sampling

2.3.1 Sample Design

This is the fourth round of IBBS among MSM/TG; thus, the questionnaire was developed and designed in reference to previously used questionnaire in close coordination with the NCASC. During the preliminary planning of the survey MSM/TG networking organizations and local NGO and CBO working for same were consulted to understand the diversity within their community and access their networking strength. In preview of their good networking strength within their diversity communities the respondent-driven sampling (RDS) method was adopted to recruit participants for the survey. This method is effective in accessing hard to reach populations such as MSM, injecting drug users (IDUs), male sex workers (MSWs) and female sex workers (FSWs). It is used to avoid biases arising out of masking, volunteerism, chain referrals and over representation. RDS Sampling frame was developed based on soliciting information collected during sampling process by respondent network size (including sample characteristics such as gender, race/ethnicity and age), respondent serial number and respondent's recruited serial number. Appropriate reward mechanism for recruiters and quota management was made during the process, so that recruitment is not wasted on strangers.

2.3.2 Sample Size

Baseline information available from the previous rounds a total of 400 MSM/TG from the three districts of Kathmandu Valley viz., Kathmandu, Lalitpur and Bhaktapur were included in the Survey to detect 10 to 15% changes in prevalence and risk behaviors.

2.3.3 Seeds and Recruitment of MSM and TG people in the Survey

In line with the RDS methodology, the Survey team, in consultation with FSGMN/Blue Diamond Society, motivators and relevant stakeholders first recruited a total of eight MSM/TG as 'seed'. Selected seeds were heterogeneous in age, ethnicity, geographically distributed and MSM type. Those seeds were informed about Survey protocols and procedures and were encouraged to recruit other eligible individuals from their social networks randomly to participate in the Survey. These initial "seeds" were provided 3 coupons to pass on to their peers who are eligible to participate in the survey. Thus the first wave of participants recruited for the Survey was brought in by seeds.

Initially two survey sites were established at Gaushala and Jamal for 5 days which was later consolidated to one (at Jamal) upon the recommendation from NCSAC, this avoided possible sample duplication.

Each seed was briefed about the objectives and nature of the Survey. Upon completion of the interviews and clinical procedure, each seed was provided with three recruitment coupons, which they use to recruit three other network people/peers and refer them to the field office. The new respondent when arriving at the field office presents the coupon to the Survey team. These network people/peers who were eligible to take part in the Survey were further given three coupons each and were encouraged to act as a new seed. In this way, the recruitment through the RDS continued until targeted sample size for both sub-populations (total 400 MSM/TG) was reached. The coupon was uniquely coded in order to monitor the recruitment. The coupon numbers were carefully recorded in each questionnaire. Of the eight seeds, maximum and minimum completed waves were 9 and 2 respectively.

Dual incentive was provided to the respondents to encourage recruitment process. Initially each participant was provided with incentive for the participation into the Survey and additional incentive for each individual they recruited.

All respondents participated voluntarily in the survey. An inclusion criterion was developed for participation in the Survey. Those participants who failed to meet the criteria and those who were not willing to participate were not enrolled in the Survey. Out of the total respondents four refused to give anal swab but completed their interview and provided blood specimen for HIV and STI testing.

2.3.4 Control of Duplication

For a quality assurance stage of sound mechanism was in place to avoid the duplications. Firstly, entire MSM/TG survey was conducted from a single site to avoid repetition of respondent. Secondly, each recruited MSM/TG was screened by supervisor before enrolling in the survey process. Thirdly, each survey participants were provided with unique ID numbers. The ID was marked on each questionnaire, medical records, and blood specimen of the particular respondent. This was also used for distribution of the test results. Each survey participant who completed the survey was provided the uniquely coded

number to avoid duplications thus same person could not take part more than once in the survey. Each participant who completed the survey was informed before issuing the recruitment coupons that the same person could not take part more than once in the survey. Therefore, they should not recruit the same person who had already received a coupon from others and/or had already participated in this survey. In order to avoid repeated interviews with the same MSM/TG, before issuing the ID number, the participants were asked several questions relating to their experience of having undergone blood tests, the part of the body from where the blood was taken, their experience of HIV testing or testing for other diseases, previous meetings with the Intrepid staff and peer educators, and possession of an ID card with a survey number.

2.4 Survey Instruments and Administration of Tools

The IBBS consisted of two separate components:

Quantitative data were collected through face-to-face interview using structured questionnaire. Structured questionnaires was used to gather the behavioral data relating to sexual behavior, sex partner, use of condom, exposure to ongoing HIV awareness program and participations and their networking programs in such activities as well as demographic and social characteristics. The questionnaires were developed based on the "National Guidelines for Repeated Behavioral Surveys in Populations at Risk of HIV".

Blood samples were collected from the participants for serological and DNA analysis for HIV and STI [Syphilis, Chlamydia and Gonorrhea] screening.

2.5 Timing of Data Collection

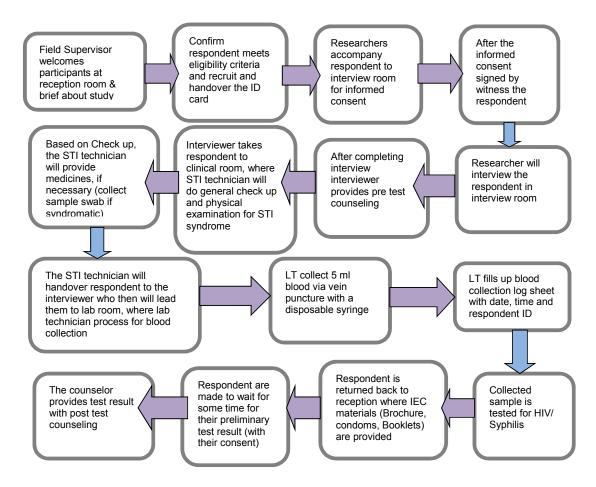
The field work was carried out from September 10 to October 16, 2012. The time was set from 8 Am to 5 PM and clinic was step up at Jamal Kathmandu.

2.6 Survey Team Composition

Project team leader was overseeing overall Survey. Apart from the team leader survey team had two coordinators, one Lab Advisor, 2 research officers, one data Analyst, one lab supervisor, two field officer and two field coordinator form stakeholders. The field team had one field supervisor, three interviewer, one health assistant, one lab technician, one counselor, local one motivator form the Blue Diamond society and support staff in each team. There were a total of **2 field teams** for the Survey.

2.7 Survey Field Procedures

Survey centers with laboratories/clinics were set up at easily accessible location. Pre-test counseling sessions were held before the clinical examination and blood sample collection. All the respondents were then examined for clinical symptoms for STI and blood samples were collected for detection of HIV, syphilis, Chlamydia trachomatis (CT) and Neisseria gonorrhoea (NG)] infections. Survey participants were provided with treatment for STI if clinical/observational diagnosis was positive. Posttest counseling was also provided prior to the distribution of test results for HIV/STI at these sites by experienced counselor. The details process post recruitment of the respondent is outline by the diagram given below.



2.8 Ethical Issues

In order to ensure adherence to ethical aspects of the study Ethical approval was obtained from the national ethical body, Nepal Health Research Council (NHRC) prior to commencement of the Survey. The participants' rights to information, volunteerism, privacy and confidentiality and adherence to the compliance of both the ethical and human rights standards were maintained throughout the Survey, including during the fieldwork and data entry. A unique identity (ID) was provided to each of the Survey participant. No personal identifiers were collected and the ID number was marked on each questionnaire, medical records, and blood specimen of the particular respondent. This was also used for distribution of the test results. Moreover, verbal informed consent was obtained from all participants prior to interview and collection of the blood sample in presence of a witness. Respondents were informed about voluntary participation and were made aware of their right to refuse to answer any question or to withdraw from the interview at any time. A consent form describing objectives of the survey, nature of participants' involvement, benefits they would receive, as well as confidentiality policy was clearly elucidated (Annex7).

2.9 Clinical and Laboratory Procedure

Clinical Procedure

A standard medical procedure in accordance with the 'National STI Case Management Guidelines was followed for clinical examination and clinical specimen collection. A separate medical team of Intrepid stationed at the field office was involved in the execution of the clinical procedures. Survey

participants were clinically checked for any symptoms of STI by a health assistant which included history of vital signs and inspection/examination of genital area and local lymph nodes looking for local changes erythema, warts, abrasions, ulcers, swelling, and discharge (clinical checklist-Annex 5). A symptomatic treatment of STI was also provided to the participants free of cost at the research site. Few cases were referred to other health facility for further diagnosis and treatment.

Collection, Storage and Transportation of Samples

I) Blood Sample

After pre-test counseling, the lab technician briefed the respondents about the HIV/STI testing process and sought their consent to take blood. About 5ml of venous blood was drawn from each survey participant using disposable syringes and collected in sterile glass tube. After centrifuge the serum was separated and stored in a sterile disposable serum vial and kept in a refrigerator at the Survey sites at 2°C to 8°C. Each serum sample was labeled with an ID number of survey participant. The specimens were sent to the Intrepid Laboratory in Kathmandu in a cold box every day. The serum samples were stored at a temperature of -12°C to -20°C at the Intrepid Laboratory.

II) Swab Samples

For DNA amplification testing for gonorrhea and Chlamydia, 20 ml of first catch urine taken at least two hours since the last void was self-collected by participants in a sterile plastic universal urine container, a 20 ml screw cap tube. The urine container was stored at room temperature and sent to Intrepid Laboratory on the same day where it was stored in two different aliquots at minus 86°C before testing.

For detection of Gonorrhea and Chlamydia pathogens, anal swabs were also collected from the MSMs who were found with symptoms for STI in clinical observation/examination. The anal swab was collected by the medical team inserting the swab stick about 2.5 cm into the anal canal. All the swabs were rotated and moved gently from side to side for 3-5 seconds before removing them. Collected swab samples were preserved in vials containing sterile transport medium; maintained in cold chain for transport to Intrepid Pvt. Laboratory. Out of 400 MSMs 28 were found symptomatic for STI after clinical observation and 5 refused to provide anal swab.

The swab was placed in the Amplicor STM tube. The health assistant vigorously swirled the swab in the liquid for 15 seconds. The contamination from the surface of the liquid was removed by the swab tip then liquid was expressed from the swab by pressing it against the side of the tube. The swab stick was then discarded, the transport tube was recapped tightly and labeled with ID number of the respondent, collection date and time. The tube was stored at room temperature in the tube stand and sent to Intrepid in an upright position every day.

Blood samples were tested for HIV antibody and syphilis serology. The blood sample was placed in a centrifuge to separate blood cells from serum. Each sample was labeled with an ID number of survey participant .Both HIV rapid tests and syphilis RPR tests were performed using serum by a lab technician from Intrepid Pvt. Ltd. of Kathmandu. The site laboratories were designed to have confidential testing for HIV and Syphilis as per the national guidelines. Universal precautions and stringent waste management protocols were followed. Quality assurance tests were per formed on all positive sample

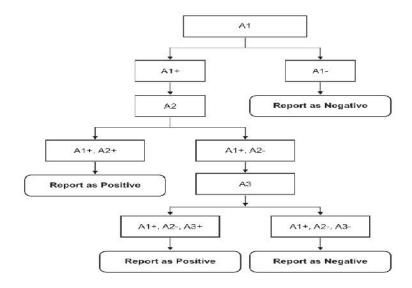
and a random 10% negative sample, EQA was done by public health laboratory (NPHL) in Kathmandu for both HIV and Syphilis testing.

Laboratory Procedures

Laboratory service entailed screening all the subjects/participants with initial and confirmatory tests (validated immune-chromatography HIV 1-2 detection device or Rapid Kits). In addition to HIV-1/2 screening, rapid screening test with rapid kits (as agreed) and confirmatory test with same kit in a different laboratory were carried out to find prevalence and status (current or historical) of Syphilis. For screening of syphilis Biotech RPR was used and confirmatory test with TPPA were carried out to find prevalence and status (current or historical) of Syphilis. RPR titration test determined the Syphilis progression.

HIV1/2

The HIV antibody screening of the serum sample was performed using rapid test kits following the HIV testing strategy II algorithm which is based on the National VCT Guidelines (NCASC). Determine HIV1/2 (Abbott, Japan), Uni-Gold HIV1/2 (Trinity Biotech, Ireland), and SD Bioline HIV1/2 (Standard Diagnostics Inc., South Korea) were used as lateral flow (rapid immuno -chromatography) kits for testing for the presence of antibodies against HIV in the serum. Serum that tested positive with the initial kit was confirmed with the second kit. Samples that were found reactive on both tests were considered HIV antibody positive. Samples that were non-reactive on the first test were considered HIV antibody negative. Any sample that was reactive on the first test but non-reactive on the second was retested with the third "tiebreaker" kit. The quality of the assay was assured by the in-built control of each kit. The interpretation of the test results was as follows:



NOTE:	
A1 (First test):	Determine HIV 1/2
A2 (Second test)	: Uni-Gold HIV
A3 (Third test)	: SD Bialine HIV 1/2
" + "	: Reactive
n _ n	: Non-reactive

¹ Assay A1, A2, A3 represent 3 different assays.

Report: result may be reported.

⁴ For newly diagnosed individuals, a positive result should be confirmed on a second sample.

⁵ Testing should be repeated on a second sample taken after 14 days.

⁶ Result is considered negative in the absence of any risk of HIV infection.

Figure 2.1: HIV Testing Strategy II Algorithm

Syphilis test was performed following the national guideline (National guideline on case management of sexually transmitted diseases, NCASC, Nepal). Serum was tested for non-specific and specific treponemal agents. A non-specific treponemal test, Rapid Plasma Reagin (RPR) [Biotch, company, UK] was used for both qualitative screening and quantitative titration. All RPR reactive serum was confirmed using specific Treponema pallidum Particle Agglutination (TPPA) test (Fujirebio Inc.) at Intrepid Laboratory. Serum sample tested RPR positive with titer value above or equal to 1:8 was reported as active syphilis; titration less than 1:8 was reported as a case with history of syphilis. The quality of reagents and test cards of the RPR test kit was assessed daily on-site using a set of strong and moderate positives and negative controls. RPR positive with greater than or, lower than or, equal to 1:8 titre with negative TPHA test is considered Syphilis negative cases. This may be due to unspecific syphilis RPR positive scenarios.

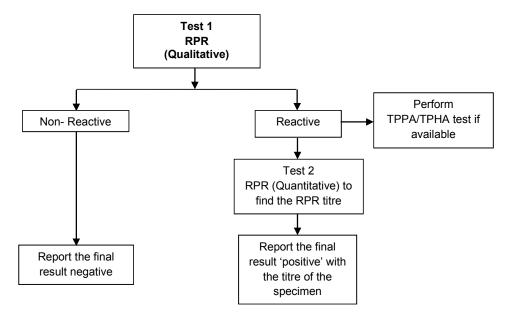


Figure 2.2: Syphilis testing algorithm

Gonorrhea and Chlamydia diagnosis

The presence of Gonorrhea and Chlamydia pathogens (N. gonorrhoeae and C. trachomatis) were determined by multiplex PCR based pathogen detection assay (Seegene, Korea) on syndromic cases confirmed under clinical observation. DNA extraction followed by PCR was carried out at Intrepid Laboratory.

² Such a result is not adequate for diagnostic purposes; use strategies II or III. Whatever the final diagnosis, donations which were initially reactive should not be used for transfusions or transplants.

Swab Collections

For detection of Gonorrhea and Chlamydia pathogens, anal swabs were collected from the cases found to be symptomatic for STI by clinical observation. Collected swab samples were preserved in vials containing sterile transport medium; maintained in cold chain for transport to Intrepid Nepal Pvt Ltd laboratory. Out of n=400 samples after clinical observations n=28 found symptomatic and n=5 refused to provide anal swab.

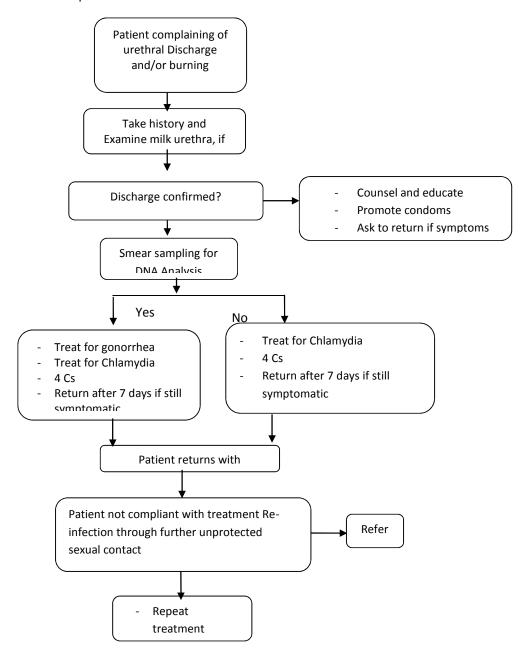


Figure 2.3: Gonorrhea and Chlamydia screening strategy

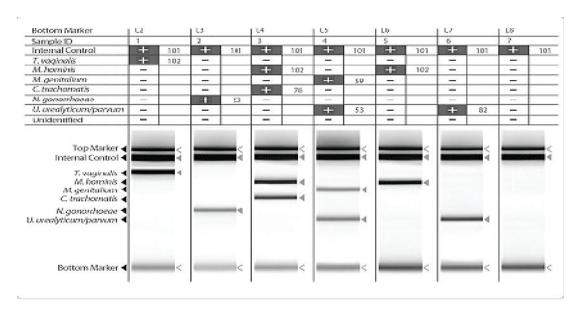


Figure 2.4: Multiplex PCR based detection of Gonorrhea and Chlamydia

2.10 Precautions, Disposal mechanism and Post exposure Management

The universal precaution and post exposure management was followed as per recommendation of CDC and Nepal's national guidelines where applicable. In order to minimize possible spread of infection to clinical personnel and to the local community, the proper disposal mechanism was implemented. The color coded disposable plastic bags inserted in a thick, leak-proof container with tight seal was used. All materials were decontaminated (by disinfecting or incinerating) before disposal. Contaminated materials including specimens of body fluids, cotton gauze and broken glassware and used needles were decontaminated in 0.5% Sodium Hypochlorite each day. The plastic material, papers, cotton were incinerated. The used Sodium hypochlorite was poured down the drain or in a flushable toilet when available.

2.11 Quality Control of Laboratory Tests

On-site and external quality assurance of the samples was maintained while testing. The on-site audit includes quality control of test kits, record-keeping, and observation of staff performance. The on-site quality control of the kit was assessed by in-built control mechanism provided by the kit. While the trained laboratory personnel was responsible for the record-keeping on daily basis along with the quality control test that was performed. The staff performance was supervised by the supervisor who was stationed on the field.

External Quality Control

The External Quality Control or Blind Rechecking was performed by retesting samples in the Intrepid's Laboratory in Kathmandu. All positives and 10% negative samples were sent to the national public health laboratory (NPHL).

2.12 Survey Management and Coordination

The survey was overall managed by Intrepid Nepal under the supervision of NCASC coordination with NCASC. The survey protocol was developed in close coordination with NCASC which was strictly followed during the entire survey period. The core team member of the Intrepid Nepal were responsible for the management of the entire survey process that includes development and finalization of the research tools in Nepali Language, Laboratory SOP, training of the field teams, field planning, field monitoring matrix, data management, data analysis and report preparation.

2.13 Implementation of the Survey

Before implement the survey field team was provided with 4 days intensive training (September 2-5, 2012). The training session covered Survey objectives, characteristics of the MSM population, rapport-building techniques, content and scope of questionnaire and Survey protocol. The training session include practical as well as theory class. The training session was facilitated by the resources person form NCASC, Blue Diamond Society, and Intrepid Nepal. The practical session of lab and STI session was conducted at Intrepid laboratory. The technical expert have had conducted HIV pre-test post-test counseling.

2.14 Monitoring of the Survey Field work and Quality Assurance

Monitoring and follow-up mechanisms were in place to ensure quality throughout the survey period. INPL ensured that the desk review and reference materials were being adequately referred to develop relevant and useful Survey tools and that the field researchers were well trained to develop their skills to use the tools effectively to gather data in coordination with NCASC. Similarly, the field monitoring and follow-up was done by the INPL and NCASC staff and other stakeholders in a regular basis throughout the entire field work.

Every day Field supervisor reviewed all the completed questionnaires and inconsistencies in them were discussed with team members. The field supervisor monitored and managed the required cold chain for EQS and kits. The key research team members monitored and supervised the field activities. The field officer ensured that this survey protocol was strictly followed. Intrepid Nepal submitted field progress update to NCASC on weekly basis. The observations and suggestions from monitoring team were shared with field team at the end of the monitoring visit and were also communicated to Intrepid and NCASC.

2.15 Post-Test Counseling and Test Result Distribution

All the Survey participants were provided HIV and Syphilis test results with post-test counseling by a trained counselor in a confidential setting. Counseling session was also focused on raising awareness on high-risk behavior pertaining to STI and HIV.

2.16 Data Management and Analysis

All the completed questionnaires were thoroughly checked by field supervisor for any inconsistencies before the data was entered into a computer using CSPro software package. All the completed questionnaires were transported to Intrepid Nepal Pvt. Ltd. (INPL) office for coding and entry. Double entry was adopted to minimize errors during the data entry and ensure quality of data. Furthermore batch edit programming was developed to check the inconsistencies. Compiled data file was

transferred to SPSS/RDSAT for further analysis. Respondent-Driven Sampling Analysis Tool (RDSAT) software was used for analysis.

Raw data was prepared using SPSS. This included generating new variables and re-coding missing values. Datasets were then converted to Microsoft Excel files and then to RDS files (Tab Delimitated Text). Prevalence estimates of key-indicators were performed in RDSAT. With RDSAT the pull-in outlier option was used to eliminate extremely small and large outliers in reported network sizes. When the program encounters an individual whose network size is outside of the specified bounds, their network size is set to the value of the nearest lower or upper bound (percentage) with the help of the pull-in outliers option. RDSAT analysis for this Survey used 5% pull-in outliers of network size.

Simple statistical tools such as frequency distribution, percentages, range, proportion, mean and median were used to analyze the results of the survey. Clinical and behavioral data were merged in order to examine the relationship between the participants' HIV status, socio-demographic characteristics, and sexual behaviors.

2.17 Dissemination of IBBS Survey Findings

As per the planed, IBBS survey result was disseminated at four levels: First, the key programmatic findings were shared with major stakeholder of the INGO, NGO and NCASC program person and their related comments were incorporated to the report. Secondly with the PWIDs community and local stakeholders at the survey districts and their suggestions were incorporated to finalized the report as well as for ownership among the communities' Thirdly, it was shared at the national level in Kathmandu among a wider group of government, non-government organizations, donor agencies and stakeholders working in the field of HIV and AIDS in Nepal. This was done primarily as an update on the status and the trends of the HIV infections among MSM/TG Populations to draw possible policy and program implications. Lastly, dissemination meetings were organized at the regional level for all local government and non-government local stakeholders to share the survey findings so they can be used to improve the local response to the HIV epidemic.

2.18 Intended use of IBBS Survey Results

The survey results are primarily intended to use (in reference to the MSM/TG population) for:

- Tracking the trends in HIV and STI prevalence
- Tracking the trend in high risk behaviors
- Estimating and projecting HIV infection
- Evaluating the progress of HIV prevention interventions

2.19 Methodological Limitations of the Survey

As MSM/TG is the hidden populations, the samples size may not be adequate. Calculated sample size is adequate to detect proposed 10 to 15 %Changes in estimate. The initial seed were purposively selected which could be one of the limitations of the survey but the waves were adequate to exclude any bias introduced by the selection of seeds purposively.

CHAPTER 3

FINDING OF THE SURVEY

3.1 Response Status of the Survey Participants

Table 3.0: Response status of the survey participants

Districts	Total MSM/TG Sample	Total interview	Refuse
Kathmandu, Lalitpur and Bhaktapur	400	404	4

3.2 Socio Demographic Characteristics

This chapter provides basic information on socio-demographic characteristics of the MSM/TG in Kathmandu Valley. It also provides information on self-categorized preferred identity on the basis of sexual orientation as well as gender identity of the MSM. Furthermore, this chapter describes about income and income sources of the MSM in Kathmandu valley as well.

3.2.1 Demographic Characteristics

Self-Categorization of sexual identity

Table 3.1 shows more than 9 self-categorization of MSM/TG on the basis of their perceived sexual roles. *Meta/Meti'*, 'Ta', and 'Pinky-ta' Pinky-meta are some of the terms used to define such different roles. In May 2007 the Government of Nepal officially recognized 'third gender' in addition to the conventional gender categories of male and female.

The study participants in this survey were also asked how they would like to be identified on the basis of their sexual orientation/behavior. In response, 31.8 percent of the MSM preferred to be identified themselves as men followed by 19.0 percent as meta/meti. Similarly, 17.3 percent of MSM would like to be identified as homosexual, 11 percent as ta, 9.3 percent as Gay, 5.3 percent as Dohori and 4.3 percent as woman. Less than 2 percent of them preferred to be referred to as Pinky meta and pinky ta.

The Study participants were asked how they would identify themselves from gender perspective. Majority of study participants (70.5%) considered themselves as male while over a quarter (28.8%) of them would like to identify themselves as third gender. Only three study participants considered themselves as female.

Table 3.1: Self-categorization of sexual orientation

Self-reported sexual identity	N=400	%
Man/mard	127	31.8
Meta/meti	76	19.0
Homosexual	69	17.3
Та	44	11.0
Gay	37	9.3
Dohori	21	5.3
Woman	17	4.3

Pinky meta	4	1.0
Pinky ta	1	0.3
Others	4	1.0
Self-reported gender identity		
Male	282	70.5
Third gender	115	28.8
Female	3	0.7

Table 3.2 shows, almost eight out of ten (78.8%) respondents were living in rented apartment/room. While comparing to Non-MSW/TG non-sex worker, it reveals that MSW/TG sex worker are more likely to live in rented apartment/room than own home.

Table 3.2: Current living situation

	MSW/TG-SW		Non-MSW/TG Non-SW		MSM/TG	
	N	%	N	%	N	%
Living in own home	22	16.3	53	20.0	75	18.8
Living in a residential hotel	1	.7	1	.4	2	0.5
Rented apartment/room	111	82.2	204	77.0	315	78.8
Others*	1	.7	7	2.6	8	2.0
Total	135	100.0	265	100.0	400	100.0

The MSM/TG who participated in this survey were quite young with their median age being 25 years. 72 percent were less than the age 30 years. Not much difference was noticed in the age characteristic between MSW and non-MSW groups. The percentage of the adolescents (under 20 years of age) comprise approximately one sixth in both the categories of the respondents. Very few MSW (less than 4%) and non-MSW (8.3%) represent the elder age group (40 years and over).

Table 3.3: Demographic Characteristics

Demographic	MSW/TG-SW		Non-MSW/Non TG SW		Total	
Characteristics	N	%	N	%	N	%
Age						
16-19	22	16.3	47	17.7	69	17.3
20-24	43	31.9	86	32.5	129	32.3
25-29	36	26.7	56	21.1	92	23.0
30-34	20	14.8	31	11.7	51	12.8
35-39	9	6.7	23	8.7	32	8.0
40+	5	3.7	22	8.3	27	6.8
Total	135	100.0	265	100.0	400	100.0
Median age	2	.5		24		25
Mean/Std. dev	26.09	/6.69	26.72/8.67		26.51/8.05	
Currently married						
Yes	30	22.2	81	30.6	111	27.8
No	105	77.8	184	69.4	289	72.3
Total	135	100.0	265	100.0	400	100.0
Sex of married partner *						
Male	6	20.0	13	16.0	19	17.1
Female	27	90.0	69	85.2	96	86.5

Demographic	MSW/	TG-SW	Non-MSW	/Non TG SW	Total	
Characteristics	N	%	N	%	N	%
Total	30	100.0	81	*	111	*
currently living with a regu	ılar sexual par	rtner				
Yes	33	24.4	65	24.5	98	24.5
No	102	75.6	200	75.5	302	75.5
Total	135	100.0	265	100.0	400	100.0
currently living with						
Male/meti	23	69.7	29	44.6	52	53.1
Wife	9	27.3	35	53.8	44	44.9
Other women	1	3.0			1	1.0
TG			1	1.5	1	1.0
Total	33	100.0	65	100.0	98	100.0

^{*} Multiple responses allowed

It is evident from the above table that the majority of the MSW (77.8%) and the non-MSW (69.4%) are unmarried. Only 22.2 percent of the MSW and 30.6 percent of non-MSW said that they are married. 86 percent of them were married to a female partner. On the other hand, 20 percent MSWs and 16 percent non-MSWs were married to male partners.

Among those who lived with a regular partner, 53.1 percent of the MSM lived with a male regular partner while 44.9 percent lived with their wife. More MSWs had a male regular partner (69.7%) than non- MSWs (44.6%).

Over two-fifths of the MSM (44.8%) had passed the secondary level of education and more than a quarter had the SLC or a higher level of studies (29%). Little difference was noticed between MSWs and non-MSWs with regard to their literacy status. However, 5.9 percent of MSWs had never been to a formal school while nearly half than that percentage of non MSWs reported that they had never been to a formal school. Four in ten of the MSM (42.5%) belonged to the upper cast group known as Brahmin, Chhetri or Thakuri, while around three in ten (36.5%) were from the disadvantaged janajatis groups (Rai/Limbu/ Gurung/Tamang/Magar). While not much difference was noticed in the caste/ethnicity composition between MSWs and non-MSWs, a higher proportion of MSWs (14.8%) represented relatively advantaged janajatis compared to non-MSWs (10.2%).

Table 3.4: Socio-demographical Characteristics

Socio-demographical	MSW	MSW/TG SW		Non-MSW/TG SW		Total	
Characteristics	N	%	N	%	N	%	
Level of education						,	
Illiterate	8	5.9	5	1.9	13	3.3	
Literate with no formal education	6	4.4	6	2.3	12	3.0	
Primary	31	23.0	49	18.5	80	20.0	
Secondary	61	45.2	118	44.5	179	44.8	
SLC and above	29	21.5	87	32.8	116	29.0	
Total	135	100.0	265	100.0	400	100.0	
Caste/ethnicity							
Dalit	2	1.5	7	2.6	9	2.3	
Disadvantaged Janajatis	52	38.5	94	35.5	146	36.5	
Disadvantaged non-dalit	4	3.0	12	4.5	16	4.0	

Socio-demographical	MSW/TG SW		Non-MSW/TG SW		Total			
Characteristics	N	%	N	%	N	%		
Terai caste groups								
Muslim	1	.7	11	4.2	12	3.0		
Relatively advantaged Janajatis	20	14.8	27	10.2	47	11.8		
Upper caste groups	56	41.5	114	43.0	170	42.5		
Total	135	100.0	265	100.0	400	100.0		
Types of religion			,					
Hindu	108	80.0	209	78.9	317	79.3		
Buddhist	18	13.3	42	15.8	60	15.0		
Muslim			1	.4	1	.3		
Christian	9	6.7	13	4.9	22	5.5		
Total	135	100.0	265	100.0	400	100.0		
please use short name for variable, not the whole questions								
Yes	32	23.7	51	19.2	83	20.8		
No	103	76.3	214	80.8	317	79.3		
Total	135	100.0	265	100.0	400	100.0		

About 80 percent of the MSM were Hindus, 15 percent were Buddhists while 5.5 percent were Christians.

Overall, 20.8 percent of the MSM (23.7% MSWs and 19.2 percent non-MSWs) had lived away from home for one month or longer in the past year.

3.3 Occupation and Monthly Income of the MSM/TG

Respondents came from a variety of occupational backgrounds, ranging from farmers to civil servants. In total, a quarter of the MSM relied on wage labor as their main source of income (23%). More non-MSWs (27.2%) than MSWs (14.8%) were wage laborers. Likewise, 20.4 percent of non-MSWs were students compared to 11.9 percent of MSWs who were students. One in six of the MSM were employed in private companies (15.3%). Notably, 31.1 percent of MSWs cited sex work as their main source of income, while 9.1 percent of non-MSWs were businessmen compared to just three percent of the same occupational background amongst MSWs (3.7%).

Table 3.5: Occupational Background

Occupational Background	MSW/SW-TG		Non-MSW/Non SW- TG		Total	
	N	%	N	%	N	%
Student	16	11.9	54	20.4	70	17.5
Driver	4	3.0	11	4.2	15	3.8
Military			1	.4	1	.3
Other civil servant	2	1.5	2	.8	4	1.0
Businessman	5	3.7	24	9.1	29	7.3
Private company staff	19	14.1	42	15.8	61	15.3
Unemployed	5	3.7	17	6.4	22	5.5
Laborer/wage labor	20	14.8	72	27.2	92	23.0
Sex worker	42	31.1			42	10.5
Others	22	16.3	42	15.8	64	16.0
Total	135	100.0	265	100.0	400	100.0

The income of the respondents in the month preceding the survey ranged from less than 3000 to more than 10,000. However, the median income of MSWs in the month preceding the survey was higher (NRs 10,000) than non-MSWs (NRs. 8,000). About 6 percent of MSM made less than NRs. 3,000 and 35 percent of MSM had made more than 10,000; more MSWs (44.4%) than non-MSWs (30.2%) reported of earning more than 10,000.

Table 3.6: Sources of Income and Number of Dependents

Sources of Income and	MSW	1SW/SW-TG Non-MSW/Non SW-TG		Non SW-TG	Total		
Number of Dependents	N	%	N	%	N	%	
Last month's income in NRs.*	*		1				
None	5	3.7	61	23.0	66	16.5	
<=3000	13	9.6	10	3.8	23	5.8	
3001-6000	23	17.0	43	16.2	66	16.5	
6001-10000	34	25.2	71	26.8	105	26.3	
>10000	60	44.4	80	30.2	140	35.0	
Median income	10	,000	8,00	00.00	8,00	0.00	
Mean	117	26.12	929	2.77	101	05.4	
Total	135	100.0	265	100.0	400	100.0	
Income source of this money							
Sex work	113	86.9			113	33.8	
Money from family	1	.8	6	2.9	7	2.1	
Salaried job	35	26.9	83	40.7	118	35.3	
Own business	7	5.4	27	13.2	34	10.2	
Wage labor	27	20.8	97	47.5	124	37.1	
Others			17	8.3	17	5.1	
Total	130	100.0	204	100.0	334	100.0	
Total no of dependents	· ·						
None	48	36.9	61	29.9	109	32.6	
1-2	37	28.5	51	25.0	88	26.3	
3-4	34	26.2	63	30.9	97	29.0	
5-6	10	7.7	20	9.8	30	9.0	
7+	1	.8	9	4.4	10	3.0	
Total	130	100.0	204	100.0	334	100.0	
Amount paid by last client (in	NRs.)						
50-100	40	29.6	NA	NA	40	29.6	
101-400	23	17.0	NA	NA	23	17.0	
401-1000	50	37.0	NA	NA	50	37.0	
1001-9000	22	16.3	NA	NA	22	16.3	
Total	135	100.0	NA	NA	135	100.0	

^{*}Note: Multiple responses allowed. NA- Not applicable for non-MSWs

Most of the MSWs mentioned that their last month's income was from sex work (86.9%). In addition they had also received salary from their jobs (26.9% MSWs and 40.7% non-MSWs) and had been paid for working as wage laborers (47.5% MSWs and 20.8% non-MSWs). Very few MSM received money from their families in the month preceding the survey (2.1%).

One third of MSM did not have any dependents to look after (32.6%). 26 percent of the MSM had 1-2 dependents, while 41 percent of them had to take care of more than two dependents. The prices charged by MSWs to their clients varied from NRs. 50 to NRs. 9,000. More than one third of them had been paid between NRs. 401 to NRs. 1000 (37%), while more than a quarter (29.6%) had received between NRs. 50 and NRs. 100 from their last clients. Those MSWs who charged NRs. 1,001 to 9,000 to their clients were 16.3 percent.

MSWs/TG SWs' paying partners were from different professional backgrounds. Almost 15 percent of MSWs reported that their clients were mostly police/military men, while equal 11.1 percent said that their clients were mostly laborer and businessmen. Furthermore, 9.6 percent of the respondent reported their client were student and 7.4 and 2.2 percent of them had reported their client were civil servant and private office staff respectively. In addition, nearly four out of ten (42.2%) of MSWs/TG SWs were unknown about their clients' professional background as well (Annex - 7).

3.4 Prevalence of HIV and STIs

This chapter describes about the prevalence of HIV/STI among MSM in the Kathmandu Valley. Furthermore, it also shows the relationship between HIV and STI prevalence with selected variables.

3.4.1 Prevalence of HIV/STIs

Out of the total of 400 MSM/TG, 25 were HIV positive. MSW/TG-SW had found higher prevalence of HIV than non-MSW/TG Non-SW -16 out of 135 MSW/TG-SW and 9 out of 265 non-MSW/TG Non-SW were tested HIV positive.

Estimated Population Proportion was calculated using Respondent Driven Sampling Analysis Tool (RDSAT). Overall Estimated Proportion among MSM/TG was 3.8 and found higher in MSW/TG-SW (6.8) than Non-MSW/TG Non-SW (2.9). The percentage of respondents who had at least one of the following infections: HIV, active syphilis, anal and urethral Neisseria Gonorrhoea (NG) or anal and urethral Chlamydia Trachomatis (CT)) in the Kathmandu Valley was 10.8, with a significantly high percentage among MSWs (18.5%) than non-MSWs (6.8%).

Table 3.7: HIV and STI Prevalence among MSM

CTI infantion	MSW	MSW/TG-SW		//TG Non-SW	MSM	
STI infection	N=135	%	N=265	%	N=400	%
HIV**	16	6.8 CI (1.6 – 1.8)	9	2.9 CI (1.2 – 5.0)	25	3.8 CI (2.0 – 6.0)
Active syphilis	3	2.2	-	-	3	0.8
Syphilis history	7	5.2	3	1.1	10	2.5
Chlamydia Trachomatics	4	3.0	8	3.0	12	3.0
NG	6	4.4	5	1.9	11	2.8
Any one STI*	25	18.5	18	6.8	43	10.8

^{*} Any one STI include HIV, Current Syphilis, Anal CT and Anal NG

[Note: Sample Population Proportion calculates simple arithmetic calculation whereas Estimated Population Proportion calculates mainly on the basis of self-reported network size and sample recruitment]

The prevalence of active syphilis was 2.2 percent among MSWs and 0 percent among non-MSWs. Likewise, more MSWs had a history of syphilis (5.2%) compared to non-MSWs (1.1%). Both the MSW and non MSW had equal proportion of anal CT (3 percent each). Two percent of MSM in the Kathmandu Valley had anal NG, with a 4.4 percent prevalence among MSWs and 1.9 percent among non MSWs.

^{**} Estimated Population Proportion may vary than Sample Population Proportion.

3.5 Use of Alcohol and Other Drug Use

Alcohol consumption and drug use are often associated with risky sexual behavior, leading to HIV and STI transmission. This section attempts to analyze the extent of drug use including drug injecting habits and alcohol consumption by MSM/TG in the Kathmandu Valley.

3.5.1 Alcohol Consumption Habits

It is apparent from Table 3.8 that the around one fifth of the MSW (17.8%) and non-MSM (20%) had not consumed alcohol while the remaining large majority of the respondents in both the categories had consumed alcohol at least once. The majority of these respondents had consumed alcohol even in the month preceding the survey. Among them, 44.3 percent had consumed alcohol at least once a week, while 9.9 percent had done so every day in the past month. Not much difference was noticed in alcohol consumption practice between MSWs and non-MSWs. Moreover, consumption of alcohol during last sex was reported by less number of respondents. For instance, nearly three fourth of the MSW (70.3%) and two third of the non-MSW (67.5%) said that they did not take any alcoholic drink during last sex. On the other 31.6 percent of respondents had consumed alcohol the last time they had sex; this included 32.5 percent of non-MSWs and 29.7 percent of MSWs (Table 3.8).

Table 3.8: Alcohol Consumption

Alcohol Consumption	MSW/SW-TG		Non-MSW/ Non SW-TG		Total	
	N	%	N	%	N	%
Ever consumed alcohol						,
Yes	111	82.2	212	80.0	323	80.8
No	24	17.8	53	20.0	77	19.3
Total	135	100.0	265	100.0	400	100.0
Consumption of alcohol in last mor	nth					
Every day	14	12.6	18	8.5	32	9.9
3-4 days a week	20	18.0	35	16.5	55	17.0
At least once a week	46	41.4	97	45.8	143	44.3
Did not drink alcohol in the last month	29	26.1	62	29.2	91	28.2
Don't know	2	1.8			2	.6
Total	111	100.0	212	100.0	323	100.0
Consumption of alcohol during last	sex					
Yes	33	29.7	69	32.5	102	31.6
No	78	70.3	143	67.5	221	68.4
Total	111	100.0	212	100.0	323	100.0

3.5.2 Other Drug Use and Drug Injecting Practice

Use of drug was reported by less number of respondents. Overall, 26.3 percent of the MSM had used drugs in the last year. A relatively higher proportion of non-MSWs (28.3%) than MSWs (22.2%) reported doing so. Among the different forms of drugs tried, Marijuana, locally known as ganja, was the most popular drug, used by 80 percent of respondents. Other oral/inhaled drugs used by the respondents are listed in Table 3.9. However, only a negligible percentage of respondents (2%) had tried intravenous drugs in the past 12 months (Table 3.9).

Table 3.9: Use of Illicit Drugs

Use of Illicit Drugs	MSW	/sw-tg		MSW/ SW-TG	Total	
Ū	N	%	N	%	N	%
Used Illicit drugs in the past	year					".
Yes	30	22.2	75	28.3	105	26.3
No	105	77.8	190	71.7	295	73.8
Total	135	100.0	265	100.0	400	100.0
Ganja	<u>"</u>		I.			".
Yes	23	76.7	61	81.3	84	80.0
No	7	23.3	14	18.7	21	20.0
Total	30	100.0	75	100.0	105	100.0
Chares	1	•	•			J
Yes	2	6.7	14	18.7	16	15.2
No	28	93.3	61	81.3	89	84.8
Total	30	100.0	75	100.0	105	100.0
Tablets	<u> </u>	1	1			-V-
Yes	4	13.3	16	21.3	20	19.0
No	26	86.7	59	78.7	85	81.0
Total	30	100.0	75	100.0	105	100.0
Glue/dendrite	<u>"</u>		I.			".
Yes			4	5.3	4	3.8
No	30	100.0	71	94.7	101	96.2
Total	30	100.0	75	100.0	105	100.0
Heroine	<u>"</u>		I.			".
Yes			3	4.0	3	2.9
No	30	100.0	72	96.0	102	97.1
Total	30	100.0	75	100.0	105	100.0
Others		·				<u>.</u>
Yes	10	33.3	18	24.0	28	26.7
No	20	66.7	57	76.0	77	73.3
Total	30	100.0	75	100.0	105	100.0
Injected drugs in the past year	ar	·				<u>.</u>
Yes	3	2.2	5	1.9	8	2.0
No	132	97.8	260	98.1	392	98.0
Total	135	100.0	265	100.0	400	100.0

^{*}Note: Multiple responses allowed

3.6 Sexual Behavior and Condom Use

3.6.1 Sexual Behavior

This chapter deals with the sexual behavior of MSM. It focuses particularly on sexual debut, risky sexual behavior, type and number of partners, as well as the use of condoms and lubricants in different sexual acts.

3.6.1.1 First Sexual Contact

Six in ten MSM (61%) had their sexual debut at a very young age, 16 years and below. Notably, 73.3 percent of MSWs had their first sexual contact at the age of 10-16 years compared to 54.7 percent of non-MSWs. Very few MSM (6.5%) said that their first sexual experience was after crossing 20 years of age. The rest of the MSM (32.5%) had their first sexual experience when they were between 17 and 20 years of age. The person or sex partner with whom most MSM had their first sexual encounter was a male (73.3%). Relatively high proportion of MSWs (81.5%) had their first sexual experience with a male partner than non-MSWs (69.1%).

Overall, 46.8 percent of MSM reported ever having sex with a male partner in exchange for money. Not all of these were MSWs: 52 non-MSWs (19.6%) also had at least one sexual contact in return for money in the past.

Table 3.10: Sexual Behavior and Sex Partners

Sexual Behavior and Sex	MSW	MSW/SW-TG		Non-MSW/ Non SW-TG		Total	
Partners	N	%	N	%	N	%	
Age at first sex							
10-16	99	73.3	145	54.7	244	61.0	
17-20	29	21.5	101	38.1	130	32.5	
21-30	7	5.2	19	7.2	26	6.5	
Total	135	100.0	265	100.0	400	100.0	
Median		15		16		16	
Mean/Std. dev	15.2	4/3.08	16.2	7/2.84	15.92	2/2.96	
First sex partner							
Male	110	81.5	183	69.1	293	73.3	
Female	25	18.5	82	30.9	107	26.8	
Total	135	100.0	265	100.0	400	100.0	
Ever had sex with a male in exch	ange for mone	Э		<u>'</u>			
Yes	135	100.0	52	19.6	187	46.8	
No			213	80.4	213	53.3	
Total	135	100.0	265	100.0	400	100.0	
Age at first sex with a male in exc	change for mo	ney					
12-16	27	20.0	10	19.2	37	19.8	
17-20	73	54.1	27	51.9	100	53.5	
21-31	35	25.9	15	28.8	50	26.7	
Median age		19	18		19		
Mean/Std.dev	19.20	0/3.63	19.5	6/3.61	19.30	0/3.61	
Total	135	100.0	52	100.0	187	100.0	
Time of last sex with male/in exc	hange for mo	ney					
Within last 7 days	103	76.3	-	-	103	55.1	
8-15 days	11	8.1	-	-	11	5.9	
16-30 days	9	6.7	-	-	9	4.8	
31-60 days	7	5.2	-	-	7	3.7	
60 days-1 year	5	3.7	-	-	5	2.7	
Before 1 year	-	-	52	100.0	52	27.8	
Total	135	100.0	52	100.0	187	100.0	

Around one-fifth of the MSM (19.8%) had sold sex for the first time between the ages of 12-16 years. The median age for starting to exchange sex for money was 25 years among MSWs and 24 years among non-MSWs. More than half of those who had sex with a male partner in exchange for money were 17 to 20 years old at the time of their first such sexual encounter (53.5%).

A total of 76.3 percent of MSWs had last exchanged sex for money in the past week preceding the survey. While 8.1 percent of MSWs had had sex in exchange for money 8-15 days before the survey, 3.7 percent of them had done so over 2 months prior to the survey.

3.6.1.2 Sex Partners of MSM and TG

This study made efforts to cover as many different types of sex partners of MSM as possible. Six types of sex partners were cited by MSM. These are (1) non-paying male, (2) non-paying female, (3) one-time paying male, (4) regular paying male, (5) paid male and (6) paid female partners. This section deals with information on number of different types of sex partners respondents had in the month preceding the

Table 3.11: Different types of sex partners

Different types of sex partners	MSW/SW-TG	Non-MSW/Non SW-TG	Total
Mean Number of non-paying male sex partner	3.4	3.2	3.3
Mean Number of non-paying female sex partner	.6	.6	.6
Mean Number of one-time paying male sex partner	7.4	.0	2.5
Mean Number of regular paying male sex partner	5.2	.0	1.8
Mean Number of paid male sex partner	.9	.5	.6
Mean Number of paid female sex worker	.0	.1	.1

While all of the study participants had had sex with a male partner in the past year, 26.8 percent of them had sexual contact with female partners too. A larger proportion of non-MSWs (43.8%) than MSWs (26.7%) have had sexual contact with female partner in the past year (Figure 3.1).

Sex Partners in the Past Month

Non-paying Partners

The survey made an effort to assess the sexual practices of the respondents in the month preceding the survey. 75 percent of the MSM who participated in the survey had sex with a non-paying male partner in the last month, while 56 percent had also

Figure 3.1: Had sex with female sex partner in last 12 months

43.8

43.8

And the sex with female sex partner in last 12 months

When the sex partner in last 12 months

And the sex with female sex partner in last 12 months

sex with a non-paying female sex partner in the last month (Table 3.13).

It is interesting to note that there is little difference between MSWs and non-MSWs in terms of the number of non-paying male partners.

Paying Partners

The paying partners of MSWs were categorized as one-time paying partners and regular paying partners. While 21.5 percent of MSWs did not have a one-time paying sexual partner, 26.7 percent of MSWs did not have a regular paying male sex partner in the past month. On the other hand, 31.1 percent had more than five one-time paying male sex partners while 30.4 percent of them had more than five regular paying sex partners in the month preceding the survey (Table 3.12).

Table 3.12: Number of Different Types of Sex Partners in the past month

Number of Different Types of Sex Partners in the past month	MSW/SW-TG			MSW/ SW-TG	Total	
Contraction and page months	N	%	N	%	N	%
Number of non-paying male sex partr	ner			<u>, </u>		
None	45	33.3	55	20.8	100	25.0
One	28	20.7	61	23.0	89	22.3
Two-Five	43	31.9	104	39.2	147	36.8
>Five	19	14.1	45	17.0	64	16.0
Total	135	100.0	265	100.0	400	100.0
Number of non-paying female sex par	tner				•	
None	15	41.7	52	44.8	67	44.1
One	20	55.6	56	48.3	76	50.0
Two-Five	1	2.8	8	6.9	9	5.9
Total	36	100.0	116	100.0	152	100.0
Number of one-time paying male sex	partner	-				
None	29	21.5	-	-	29	7.3
One	25	18.5	-	-	25	6.3
Two-Five	39	28.9	-	-	39	9.8
>Five	42	31.1	-	-	42	10.5
NA			265	100.0	265	66.3
Total	135	100.0	265	100.0	400	100.0
Number of regular paying male sex pa	rtner ^				•	
None	36	26.7	-	-	36	9.0
One	12	8.9	-	-	12	3.0
Two-Five	46	34.1	-	-	46	11.5
>Five	41	30.4	-	-	41	10.3
NA			265	100.0	265	66.3
Total	135	100.0	265	100.0	400	100.0
Number of paid male sex partner ^^					•	
None	105	77.8	212	80.0	317	79.3
One	9	6.7	17	6.4	26	6.5
Two-Five	14	10.4	32	12.1	46	11.5
>Five	7	5.2	4	1.5	11	2.8
Total	135	100.0	265	100.0	400	100.0
Number of paid female sex worker ^^	۸					
None	133	98.5	251	94.7	384	96.0
One	1	.7	7	2.6	8	2.0
Two-Five	1	.7	5	1.9	6	1.5
>Five			2	.8	2	.5
Total	135	100.0	265	100.0	400	100.0

Paid Sex Partners

Twenty percent of MSM had paid for sex with male partners, while 4 percent of them had paid for sex with female partners in the past month. Comparatively, more MSWs than non-MSWs had paid for male sex partner while more non-MSW than MSW had paid for female sex partner

About 20 percent of the MSM taking part in the survey had more than one paid male sex partner in the past month. On the other hand, 4 percent of the MSM had sex with more than one female sex worker in the past month.

The study participants visited different sites to meet their sex partners. Some of the most commonly visited sites in the past six months have been listed in Annex - 8.

3.6.1.3 Anal and Oral Sex Partners

The predominant sex practice among MSM is anal sex, followed by oral sex. Almost all MSM had practiced anal sex (96.8%) and 91 percent had performed oral sex in the past month. At the same time, 91 percent of MSM had performed both oral and anal sex in the month preceding the survey. Cent percent of non-MSW had performed such sexual acts in the past month (Table 3.13).

Table 3.13: Type of Sexual Contact with Male Partners in the Past Month

Sexual Contact with Male	MSW/	MSW/SW-TG		//Non SW- G	Total				
Partners in the Past Month	N	%	N	%	N	%			
Anal sex with male									
Yes	122	90.4	265	100.0	387	96.8			
No	13	9.6			13	3.3			
Total	135	100.0	265	100.0	400	100.0			
Oral sex male				J.					
Yes	100	74.1	265	100.0	365	91.3			
No	35	25.9			35	8.8			
Total	135	100.0	265	100.0	400	100.0			
Anal and Oral sex with male				J.					
Yes	99	73.3	265	100.0	364	91.0			
No	36	26.7			36	9.0			
Total	135	100.0	265	100.0	400	100.0			

Anal sex partners of MSW in the past month consists of, non-paying males (97.8%), one-time paying males (99.1%), paying regular males (100%) and paid males (98.8%) (Table 3.14).

On the other hand, the anal sex partners of non-MSWs in the past month consisted of non-paying male partners (93.8%) and paid male partners (98.1%).

The respondents mostly had more than one male anal sex partner in the previous month (Table 3.14).

Table 3.14: Number of Different Types of Anal Sex Partners in the Past Month

Different Types of Anal Sex Partners in the Past Month	MSW/SW-TG		Non-MSW/ Non SW-TG		Total			
in the Past Month	N	%	N	%	N	%		
Number of non-paying male anal sex part	tner							
None	2	2.2	13	6.2	15	5.0		
One	30	33.3	64	30.5	94	31.3		
More than one	58	64.4	133	63.3	191	63.7		
Total	90	100.0	210	100.0	300	100.0		
Number of one-time paying male anal sex partner								
None	1	.9	-	-	1	.3		
One	27	25.5	-	-	27	7.3		
More than one	78	73.6	-	-	78	21.0		
NA			265	100.0	265	71.4		
Total	106	100.0	265	100.0	371	100.0		
Number of regular paying male anal sex p	artner		•					
One	18	18.4	-	-	18	5.0		
More than one	80	81.6	-	-	80	22.0		
NA	-	-	265	100.0	265	73.0		
Total	98	100.0	265	100.0	363	100.0		
Number of paid male anal sex partner			•					
None	-	-	1	1.9	1	1.2		
One	9	30.0	16	30.2	25	30.1		
More than one	21	70.0	36	67.9	57	68.7		
Total	30	100.0	53	100.0	83	100.0		

MSWs also had oral sex with (a) one-time paying male (57.7%) and (b) regular paying male (57%) partners in the past month. Around two fifth MSWs had oral sex with more than one paying male partner (40.7%) and regular paying (45.9%) partner in the past month. Besides, 40 percent of them had also performed sexual activities other than oral/anal penetration to bring their partners to orgasm.

Table 3.15: Oral Sex with Different Paying Partners in the Past Month

Oral Sex with Different Paying Partners	MSW/SW-TG		Non-MSW/ Non SW-TG		Total	
in the Past Month	N	%	N	%	N	%
Number of one time paying male oral sex par	tner					
None	57	42.2	-	-	57	42.2
One	23	17.0	-	-	23	17.0
More than one	55	40.7	-	-	55	40.7
Total	135	100.0	-	-	135	100.0
Number of paying regular male oral sex partn	er					
None	58	43.0	-	-	58	43.0
One	15	11.1	-	-	15	11.1
More than one	62	45.9	-	-	62	45.9
Total	135	100.0	-	-	135	100.0
Brought one time or regular paying male sex	partner to	orgasm wit	hout pene	tration		
Yes	54	40.0	-	-	54	13.5
No	45	33.3	-	-	45	11.3
Didn't have paying partner	36	26.7	-	-	36	9.0
NA	-	-	265	100.0	265	66.3
Total	135	100.0	265	100.0	400	100.0

3.6.1.4 Types of Sex Role with Sex Partners

In this study, MSM/TG in Kathmandu were also asked about the sex role they performed in the month prior to interview. They were asked specifically about their roles in anal and oral sex acts.

Table 3.16: Sexual Role among surveyed MSM/TG

Sexual Role among surveyed MSM/TG	MSW/	MSW/SW-TG		MSW/ SW-TG	Total	
	N	%	N	%	N	%
Role performed in anal sex	1			•		
All receptive'	33	24.4	121	45.7	154	38.5
All insertive	71	52.6	50	18.9	121	30.3
Mostly receptive	1	.7	8	3.0	9	2.3
Mostly insertive	10	7.4	8	3.0	18	4.5
Equally receptive and insertive	9	6.7	32	12.1	41	10.3
Didn't remember	11	8.1	46	17.4	57	14.3
Total	135	100.0	265	100.0	400	100.0
Role performed in oral sex					•	
All receptive	25	18.5	92	34.7	117	29.3
All insertive	54	40.0	43	16.2	97	24.3
Mostly receptive	1	.7	8	3.0	9	2.3
Mostly insertive	11	8.1	8	3.0	19	4.8
Equally receptive and insertive	9	6.7	30	11.3	39	9.8
Didn't have oral sex in the past month	35	25.9	84	31.7	119	29.8
Total	135	100.0	265	100.0	400	100.0

Type of Anal Sex Act: 38 percent of the respondents had performed exclusively receptive role while 30 percent had performed an exclusively insertive anal sex. One in seven (14.3%) had not remembered the sexual roles in the past month while one in ten had performed both insertive and receptive sexual roles in the past month (10.3%).

Comparatively, more MSWs than non-MSWs (52.6% MSWs and 18.9% non-MSWs) had performed an exclusively insertive role, while more non-MSWs than MSWs (45.7% MSWs and 24.4% non-MSWs respectively) had practiced an exclusively receptive role in the anal sex in the month preceding the survey.

Type of Oral Sex Act: Nearly 29.8 percent of MSM reported not being involved in oral sex in the last month. While 24.3 percent had performed exclusively insertive oral sex and 29.3 percent had performed only a receptive role, 9.8 percent of respondents were engaged in both insertive and receptive oral sex in the past month.

As in anal sex, more MSWs than non-MSWs (40%, MSWs and 16.2% non-MSWs) had played insertive roles and more non-MSWs than MSWs (34.7% non-MSWs and 18.5% MSWs) had performed receptive roles in oral sex in the month preceding the survey.

3.6.1.5 Type of Different Partners at First Sex and Last Sex Acts

This survey also collected information about the partners at first and last sexual contact. More than two third of MSM (68.6%) have had their first sexual intercourse with a non- paying male partner, while one fourth (24.3%) had a non-paying female as their first sex partner. A relatively larger proportion of MSWs (74.8%) than non-MSWs (65.4%) had had their first sexual contact with a non-paying male partner. On the other hand, more non-MSWs (28.6%) had their first sexual encounter

with a non-paying female partner than MSWs (16.3%).

Overall, 49.7 percent of MSM reported that their last sex partner was a non-paying male. Non-MSWs mostly had their last sexual contact with a non-paying male partner (66.3%) while most MSWs last sexual encounter was with male clients (80%).

Table 3.17: First and Last Sex Partners

First and Last Sex Partners	MSW	MSW/SW-TG		MSW/ SW-TG	Total	
	N	%	N	%	N	%
First sex partner						
Non-paying male partner	101	74.8	170	65.4	271	68.6
Non-paying female partner	22	16.3	74	28.5	96	24.3
Male client	9	6.7	3	1.2	12	3.0
Female client	-	-	1	.4	1	.3
Paid male sex worker	3	2.2	6	2.3	9	2.3
Paid female sex worker (FSW)			6	2.3	6	1.5
Total	135	100.0	260	100.0	395	100.0
Last sex partner	1	<u>'</u>	•	<u>'</u> !		
Non-paying male partner	24	17.8	173	66.3	197	49.7
Non-paying female partner	3	2.2	33	12.6	36	9.1
Male client	108	80.0	-		108	27.3
Paid male sex worker	-	-	51	19.5	51	12.9
Paid female sex worker (FSW)	-	-	4	1.5	4	1.0
Total	135	100.0	261	100.0	396	100.0

Female partners, non-paying, paying as well as paid by the respondents, were the last sex partners for 10.1 percent of MSM. More non-MSWs (14.1%) than MSWs (2.2%) had their last sexual encounter with a female partner (Table 3.17).

Half of the respondents had their last act of anal intercourse with a non- paying male partner (49.7%); this included 66.3 percent of non-MSWs and 17.8 percent of MSWs. Four out of five MSWs had their last anal sex act with a male client (80%). Additionally, 19.5 percent non-MSWs had their last anal sex act with a paid male partner.

3.6.2 Condom Use Behavior of MSM/TG

3.6.2.1 Consistent Condom Use behavior

This section deals with condom using behavior among MSM. Table 3.18 shows condom use at sexual debut and during the last sex act with either a male or female partner. One third of MSM had used condom at their first sexual debut (36.5%). However, more MSM (84.8%) had used condom in their last sexual contact. About 90 percent MSWs had used condoms during last sex compared to 81.9 percent non-MSWs reporting so.

Most of the MSM had used condom in their last anal sex (86.9%). Higher proportion of MSW (90.4%) than non-MSW (85.1%) reported of using condom in their last anal sex.

Table 3.18: Condom Use behaviors with First and Last Sex Partners

Condom Use behaviors with First and Last Sex	MSW	MSW/SW-TG		MSW/ SW-TG	Total					
Partners	N	%	N	%	N	%				
Used condom in first sex										
Yes	39	28.9	107	40.4	146	36.5				
No	96	71.1	156	58.9	252	63.0				
Didn't remember			2	.8	2	.5				
Total	135	100.0	265	100.0	400	100.0				
Used condom in last sex		<u> </u>	·	.						
Yes	122	90.4	217	81.9	339	84.8				
No	13	9.6	47	17.7	60	15.0				
Didn't remember			1	.4	1	.3				
Total	135	100.0	265	100.0	400	100.0				

Three types of sex practices anal, oral and vaginal, with different partners were reported by the respondents. Table 3.18 depicts the condom use behavior of MSM during their last act of sex with different type of sex partners. Since MSWs and non-MSWs have different type of sex partners, their condom using practices have been discussed in separate sections.

MSWs and Condom Use in the Last Act of Sex

Of the four types of different male sex partners of MSWs; (1) non-paying (2) one- time paying (3) regular paying and (4) paid partner; the highest percent of condom use during the last act of anal sex was with a regular male client (94.9%) followed by paid male sex partner (93.3%) and one time male client (91.4%).

The majority of MSWs had also used a condom the last time they had anal sex with one time male partners (91.4%) and nonpaying male sex partner (81.8%).

Of the 21 MSWs who had had sex with non-paying female sex partners, 9 (42.9%) had used a condom the last time they had sex with them. At the same time, 2 MSWs who had sex with paid female sex partners in last month had used condoms.

Table 3.19: Use of Condom in the Last Sex with Different Sex Partners

Use of Condom in the Last Sex with Different Sex Partners	MSW	MSW/SW-TG		Non-MSW/ Non SW-TG		Total	
	N	%	N	%	N	%	
Used condom in the last anal sex with non	-paying ma	le sex parti	ner				
Yes	72	81.8	171	86.8	243	85.3	
No	16	18.2	25	12.7	41	14.4	
Don't know			1	.5	1	.4	
Total	88	100.0	197	100.0	285	100.0	
Used the condom in the last sex with one	time paying	male sex p	artner			<u>,</u>	
Yes	96	91.4			96	25.9	
No	9	8.6			9	2.4	
NA			265	100.0	265	71.6	
Total	105	100.0	265	100.0	370	100.0	
Used condom in the last anal sex with regu	ular paying	male sex pa	artner	•			
Yes	93	94.9			93	25.6	

Use of Condom in the Last Sex with Different Sex Partners	MSW/SW-TG		Non-MSW/ Non SW-TG		Total	
Different Sex Partners	N	%	N	%	N	%
No	5	5.1			5	1.4
NA			265	100.0	265	73.0
Total	98	100.0	265	100.0	363	100.0
Used condom in the last vaginal/anal/oral	sex with no	n-paying fe	emale sex	partner		
Yes	9	42.9	28	43.8	37	43.5
No	12	57.1	36	56.3	48	56.5
Total	21	100.0	64	100.0	85	100.0
Used condom in the last anal sex with paid	male sex p	artner				•
Yes	28	93.3	47	90.4	75	91.5
No	2	6.7	5	9.6	7	8.5
Total	30	100.0	52	100.0	82	100.0
Used condom in the last sex with paid fem	ale sex par	tner in the l	ast month			
Yes	2	100.0	11	84.6	13	86.7
No	-	-	2	15.4	2	13.3
Total	2	100.0	13	100.0	15	100.0

NA- Not applicable for non-MSWs

Non-MSWs and Condom Use in the Last Act of Sex

Overall, condom use in the last act of anal sex was higher with paid male sex partners (90.4%) than with non- paying male sex partners (86.8%). Condom use with non-paying female sex partners was comparatively low, with 43.8 percent using condoms the last time they had sex with them; a relatively higher proportion (84.6%) had used a condom the last time they had sex with a paid female partner (Table 3.20).

As these findings indicate, MSWs as well as non-MSWs and with male paid partners than with their non-paying female partners, which put their wives or girlfriends at risk of contracting HIV and STIs. Overall, 86.9 percent of the MSM had used a condom in last anal sex with their male sex partner (90.4% MSWs and 85.1% non-MSWs). However, only 51.5 percent of the MSM had used a condom the last time they had oral sex with their male partners. More MSWs (59.3%) than non-MSWs (47.5%) had used a condom in the last act of oral sex Table 3.20.

Table 3.20: Condom using practice of MSM/TG with different types of sex partners

Condom using practice	MSW/SW-TG		Non-MSW/ Non SW-TG		Total			
	N	%	N	%	N	%		
Used condom in last anal sex with male partner								
Yes	122	90.4	223	85.1	345	86.9		
No	13	9.6	38	14.5	51	12.8		
Didn't remember	-	-	1	.4	1	.3		
Total	135	100.0	262	100.0	397	100.0		
Used condom in last oral sex with male partr	ner			•				
Yes	80	59.3	126	47.5	206	51.5		
No	50	37.0	133	50.2	183	45.8		
Didn't remember	5	3.7	6	2.3	11	2.8		
Total	135	100.0	265	100.0	400	100.0		

3.6.2.2 Consistent Condom Use with Different Type of Sex Partners

The MSM who had sexual intercourse in the last month were asked questions on consistent condom use. Overall *consistent condom use* was the highest with regular paid male anal sex partners (85.7%) among MSWs and with paid female sex partners (84.6%) among non-MSWs in the month preceding the survey.

Table 3.21: Consistent Use of Condom with Different Sex Partners in Past Month

Consistent Use of Condom with	_		Non-MSW/							
Different Sex Partners in Past	MSW/	SW-TG	Non :	SW-TG	To	otal				
Month	N	%	N	%	N	%				
Used condom with non-paying male anal	Used condom with non-paying male anal sex partner									
Always	61	69.3	146	74.1	207	72.6				
Not always	27	30.7	51	25.9	78	27.4				
Total	88	100.0	197	100.0	285	100.0				
Used condom with one-time paying male anal sex partner										
Always	88	83.8	-	-	88	83.8				
Not always	17	16.2	-	-	17	16.2				
Total	105	100.0	-	-	105	100.0				
Used condom with regular paying male a	nal sex part	ner								
Always	84	85.7	ı	-	84	85.7				
Not always	14	14.3	-	-	14	14.3				
Total	98	100.0	-	-	98	100.0				
Used condom with paid male anal sex par	rtner									
Always	23	76.7	38	73.1	61	74.4				
Not always	7	23.3	14	26.9	21	25.6				
Total	30	100.0	52	100.0	82	100.0				
Used condom in vaginal/oral/anal sex with	th non-payi	ng female se	ex partner							
Always	8	38.1	22	34.4	30	35.3				
Not always	13	61.9	42	65.6	55	64.7				
Total	21	100.0	64	100.0	85	100.0				
Used condom with paid female sex partn	er									
Always	2	100.0	11	84.6	13	86.7				
Not always			2	15.4	2	13.3				
Total	2	100.0	13	100.0	15	100.0				

MSWs and Consistent Condom Use in Past Month

Consistent condom use by MSWs with different types of male sex partners was as high as 100 percent with paid female partners. The consistent use of condoms was lowest at 38.1 percent for non-paying female sex partner. Around eight in ten MSWs (83.8%) had used condoms consistently with one-time paying male partners, while around seven in ten (76.7%) had consistently used condoms with paying male anal sex partners in the past month. Additionally, 69.3 percent of MSWs had been consistent condom users with non-paying male anal sex partners in the month preceding the survey (Table 3.21).

Non-MSWs and Consistent Condom Use in Past Month

Partner-wise, 84.6 percent of non-MSWs had used condoms consistently with paid female partners, compared to 73.1 percent of them who had used condoms consistently with paid male anal sex partners in the past month. At the same time, 74.1 percent of those non-MSWs who had had sex with non-paying male anal sex partners in the last month had used condoms consistently with them. However, consistent condom use was relatively low with non-paying female sex partners (34.4%) in the past month (Table 3.21).

3.6.2.3 Availability of Condoms and Brand Names

All the MSM could identify a condom. The table below describes the availability of condoms. Only about a third of the MSM (27.8%) were carrying condoms with them at the time of the interview. The majority of MSM (91.8%) said they could get a condom when they needed one. The reasons given by those MSM who reported not being able to get condoms when necessary (7%) were: not wanting to carry a condom around with them (75%), shop/pharmacy too far away (67.9%) or was closed (60.7%), cost too much (21.4%) and feeling awkward buying a condom (10.7%).

Table 3.22: Condom Possession and its Availability

Condom Possession and its	MSW/	MSW/SW-TG		MSW/ SW-TG	Total	
Availability	N	%	N	%	N	%
Can identify male condom			<u> </u>			1
Yes	135	100.0	263	99.2	398	99.5
No			2	.8	2	.5
Total	135	100.0	265	100.0	400	100.0
Possess a condom at the time of interv	iew					
Yes	43	31.9	68	25.7	111	27.8
No	92	68.1	197	74.3	289	72.3
Total	135	100.0	265	100.0	400	100.0
Can have condom whenever needed	•		J.		,	Ц.
Yes	125	92.6	242	91.3	367	91.8
No	8	5.9	20	7.5	28	7.0
Don't need one	2	1.5	3	1.1	5	1.3
Total	135	100.0	265	100.0	400	100.0
Reason for not being able to have cond	lom when nee	ded *		•		1
Cost too much			6	30.0	6	21.4
Shop/pharmacy too far away	5	62.5	14	70.0	19	67.9
Shops/pharmacies closed	7	87.5	10	50.0	17	60.7
Shy to buy condom	2	25.0	1	5.0	3	10.7
Don't want to carry condom	7	87.5	14	70.0	21	75.0
Others	1	12.5	1	5.0	2	7.1
Total	8	100.0	20	100.0	28	100.0
Received condom from an outreach ser	rvice, drop-in	centre or se	xual health	n clinic		
Yes	121	89.6	197	75.2	318	80.1
No	14	10.4	65	24.8	79	19.9
Total	135	100.0	262	100.0	397	100.0
Source of last obtained condom						
Shop	1	.7	2	.8	3	.8
Pharmacy	18	13.4	71	27.0	89	22.4
Health facility	3	2.2	3	1.1	6	1.5
Friends	9	6.7	24	9.1	33	8.3
BDS drop-in center	20	14.9	31	11.8	51	12.8
BDS field workers	23	17.2	57	21.7	80	20.2
Parchaya Samaj	17	12.7	32	12.2	49	12.3
Cruisedes	40	29.9	36	13.7	76	19.1
Never received condom	1	.7	2	.8	3	.8
Didn't remember	2	1.5	5	1.9	7	1.8
Total	134	100.0	263	100.0	397	100.0
Price for last condom (NRs.)						
Free	17	47.2	36	32.1	53	35.8

Condom Possession and its	MSW	MSW/SW-TG		Non-MSW/ Non SW-TG		Total	
Availability	N	%	N	%	N	%	
Re. 1			4	3.6	4	2.7	
2-5	2	5.6	13	11.6	15	10.1	
6-10	7	19.4	13	11.6	20	13.5	
11+	10	27.8	46	41.1	56	37.8	
Total	36	100.0	112	100.0	148	100.0	
Median		3	10		8		
Mean	9.	.19	17.72		15.69		
Most preferred condom brand			,				
Dhal	4	3.0	15	5.7	19	4.8	
Panther	17	12.6	22	8.3	39	9.8	
Number one	17	12.6	32	12.1	49	12.3	
Jodi	7	5.2	34	12.8	41	10.3	
Kamsutra	1	.7	8	3.0	9	2.3	
Black cobra	59	43.7	89	33.6	148	37.0	
Others	5	3.7	18	6.8	23	5.8	
Don't remember/Don't know	25	18.5	47	17.7	72	18.0	
Total	135	100.0	265	100.0	400	100.0	

^{*}Note: Percentages add up to more than 100 because of multiple responses

Overall, 80.1 percent MSM (89.6% MSWs and 75.2% non-MSWs) had received condom from an outreach service, DIC or a health facility in the past year. Regarding the source of their most recent condom, 22.4 percent of MSM had bought it from pharmacy, 20.2 percent had received it from a Blue Diamond Society (BDS) field workers, while another 19.1 percent got it from Cruisedes. Others had obtained their most recent condom from friends, from Parichaya Samaj, the BDS drop-in center and health facilities center (Table 3.22)

While 35.8 percent of MSM had received their last condom free of cost, 10.1 percent had paid Rs. 2-5, and 13.5 percent had paid Rs 6-10 for one condom and 37.8 percent paid more than 10 rupees. Notably, a larger proportion of MSWs (47.2%) had obtained free condoms than non-MSWs (69.2%).

The most preferred brand of condom was Cobra (28.3%) followed by Number One (25%). Other preferred brands were condoms distributed by the Ministry of Health/ Nepal, Jodi and Panther.

Use of Lubricant

Overall, 78.8 percent of the MSM had used lubricant during anal sex. More MSWs (90.4%) than non-MSWs (72.8%) had used lubricant during anal sex. The most common lubricant used by them was water based lubricants (85,4%).

The majority of respondents (91.7%) had used condoms with lubricant during their last act of anal sex; this included 91.8 percent of MSWs and 91.7 percent of non- MSWs.

The MSM were asked if they have heard about specially made lubricant (branded lubricant) for use with condoms. Ninety one percent of the MSM reported of heard of such lubricant but only 36.1 percent could cite the brand name. Comparatively, more MSWs (94.3%) than non-MSWs (89.1%) had heard of branded lubricant. Water base lubricant (43.2%) followed by Black Cobra (40.8%) was the most recalled brand name.

Over three fifth of those MSM (63.4%) who had heard of specially made lubricant had used them in anal sex during last month. A higher percentage of MSWs (66.9%) had used lubricants with condoms than non-MSWs (60.7%).

Those who had never used lubricants or did not use lubricant consistently stated they did not consider the use of lubricants necessary (36.4%). A higher proportion of non-MSWs (40.8%) than MSWs (26.2%) gave this reason for not using lubricant. Lack of knowledge on where to find it (35%), shy to buy it (27.9%), unaware of such product were other reasons cited for not using such lubricant by the MSMs (Table 3.23).

Almost all MSM who used lubricant reported that it decreased pain/inflammation during sexual contact (99.4%). At the same time, 56.1 percent also perceived that use of lubricant decreased the risk of condom breakage while 16.7 percent had the misconception that they could avoid HIV transmission with the use of lubricant.

Table 3.23: Use of Lubricant

Use of Lubricant	MSW/	'SW-TG		Non-MSW/ Non SW-TG		otal
	N	%	N	%	N	%
Ever used lubricant in anal sex						
Yes	122	90.4	193	72.8	315	78.8
No	13	9.6	72	27.2	85	21.3
Total	135	100.0	265	100.0	400	100.0
Types of lubricant used in the last anal sea	K	•				
Saliva	4	3.3	13	6.7	17	5.4
Oil			3	1.6	3	1.0
Water based lube	111	91.0	158	81.9	269	85.4
Antiseptic/antibiotic cream	3	2.5	1	.5	4	1.3
Ghee	-	-	1	.5	1	.3
Cream/lotion	-	-	2	1.0	2	.6
Others	1	.8	6	3.1	7	2.2
Don't know/remember	3	2.5	9	4.7	12	3.8
Total	122	100.0	193	100.0	315	100.0
Used condom with lubricant in the last an	al sex					
Yes	112	91.8	177	91.7	289	91.7
No	10	8.2	16	8.3	26	8.3
Total	122	100.0	193	100.0	315	100.0
Heard of lubricant that is specially used with condom						
Yes	115	94.3	172	89.1	287	91.1
No	7	5.7	21	10.9	28	8.9
Total	122	100.0	193	100.0	315	100.0
Know brand name of lubricant						
Yes	45	39.1	59	34.1	104	36.1
No	70	60.9	114	65.9	184	63.9
Total	115	100.0	173	100.0	288	100.0
Brand Name of Lubricant						
Black cobra	33	28.7	84	48.8	117	40.8
Water base lubricant	61	53.0	63	36.6	124	43.2
Number 1	13	11.3	11	6.4	24	8.4
KY Jelly	7	6.1	12	7.0	19	6.6
Zycolin	1	.9	2	1.2	3	1.0

Total	115	100.0	172	100.0	287	100.0				
Frequency of use of special lubricant with	condom in	anal sex in	the past mo	onth						
Every time	79	66.9	91	60.7	170	63.4				
Sometimes or Never	29	24.6	59	39.3	88	32.8				
Did not have anal sex in the past month	10	8.5			10	3.7				
Total	118	100.0	150	100.0	268	100.0				
Reason for occasional or no use of lubricant *										
Cost too much	5	11.9	2	2.0	7	5.0				
Shy to buy lubricant	15	35.7	24	24.5	39	27.9				
Don't know where to obtain	16	38.1	33	33.7	49	35.0				
I do not need to use	11	26.2	40	40.8	51	36.4				
I use other cream	1	2.4			1	.7				
Not aware of such products	6	14.3	22	22.4	28	20.0				
Others	3	7.1			3	2.1				
Don't know			1	1.0	1	.7				
Total	42	100.0	98	100.0	140	100.0				
Purpose of using lubricant *										
Decrease pain/inflammation	124	101.6	186	97.9	310	99.4				
Increase feeling/stamina	27	22.1	27	14.2	54	17.3				
Decrease risk of condom breakage	75	61.5	100	52.6	175	56.1				
Prevent HIV/AIDS infection	23	18.9	29	15.3	52	16.7				
Others	5	4.1	16	8.4	21	6.7				
Don't know	1	.8	1	.5	2	.6				
Total	122	100.0	190	100.0	312	100.0				

^{*}Multiple responses allowed

3.6.3 Knowledge and Use of Condoms

The entire survey participant knew about condom. Overall 86.9 percent of MSM/TG had used condom in last anal sex with their male sex partner. Table 3.24 reveals that 90.4 MSW/TG-SW and 85.1 percent of Non-MSW/TG non-SW had used condom in last anal sex with their male sex partner.

Table 3.24: Knowledge and use of condoms

Use of condom in last	101300/18-300		Non-MSW/TG	Non-SW	MSM/TG		
anal sex with male sex partner	N	%	N	%	N	%	
Yes	122	90.4	223	85.1	345	86.9	
No	13	9.6	38	14.5	51	12.8	
Didn't remember	-	-	1	.4	1	.3	
Total	135	100.0	262	100.0	397	100.0	

Table 3.25: Sources of Condoms and Lubricants

Sources of Condoms and Lubricants	MSW/	MSW/SW-TG		Non-MSW/Non SW-TG		tal
	N	%	N	%	N	%
Shop	12	8.9	23	8.7	35	8.8
Pharmacy/Medical hall	75	55.6	173	65.3	248	62.0
Bar/Guest House/Hotel			1	.4	1	.3
BDS drop-in center	35	25.9	28	10.6	63	15.8
BDS field workers	39	28.9	65	24.5	104	26.0

^{**} Water based lubricants are those that are distributed by organizations providing services to MSM, they come in sealed packs with water based lubricant written on it.

Parichaya Samaj	19	14.1	33	12.5	52	13.0
Cruise Aids	33	24.4	35	13.2	68	17.0
Others	11	8.1	27	10.2	38	9.5
Don't know	1	.7	1	.4	2	.5
Total	135	100.0	265	100.0	400	100.0

*Note: Percentages add up to more than 100 because of multiple responses

3.6.4 Problems in Using Condoms and Lubricants

While the majority of condom users (84.7%) did not face any problem while using lubricant with condoms, some MSM mentioned that they encountered certain problems like irritation/burning sensation (10.2%), condom slippage (1.6%) and condom breakage (0.6%) while using lubricant with condoms (Table 3.26).

Table 3.26: Problem Encountered in Using Lubricant with Condom

Problem Encountered in Using	MSW,	/sw-TG		MSW/ SW-TG	Total	
Lubricant with Condom	N	%	N	%	N	%
Types of problem encountered in using lu	bricant					
Condom slippage	3	2.5	2	1.0	5	1.6
Irritation or burning sensation	18	14.8	14	7.3	32	10.2
Condom breakage	1	.8	1	.5	2	.6
No problem	96	78.7	170	88.5	266	84.7
Others	3	2.5	5	2.6	8	2.5
Don't know	1	.8	-	-	1	.3
Total	122	100.0	192	100.0	314	100.0
Condom broke during sex in the past mor	nth	•				
Yes	43	31.9	37	14.0	80	20.1
No	92	68.1	227	86.0	319	79.9
Total	135	100.0	264	100.0	399	100.0
Perceived reason for condom breakage	•	•				
Use of oil based lubricant	-	-	1	2.9	1	1.3
Improper use of condom	28	68.3	23	67.6	51	68.0
Others	11	26.8	6	17.6	17	22.7
Don't know	2	4.9	4	11.8	6	8.0
Total	41	100.0	34	100.0	75	100.0

Twenty percent of the respondents have had condom breakage during sexual contact in the last month. Most of the respondents (68%) perceived that the breakage was caused by improper use of the condom. The majority of the respondents (62%) preferred to buy condoms and lubricants from a pharmacy whilst BDS field workers were the next preferred suppliers of condoms for 26 percent of them.

3.7 Knowledge of HIV and STIs

This chapter deals with the level of knowledge among MSM regarding STIs. Along with HIV/AIDS awareness, knowledge about STIs is also crucial to reducing the risk of HIV transmission.

3.7.1 Knowledge about STIs

The majority of the MSM (86.5%) mentioned that they were aware of at least one of the STI symptoms. However, 13.5 percent of them said that they could not mention any symptoms. The proportion of respondents reporting to be unaware of any symptoms of STIs was higher among non-MSWs (15.1%) than MSWs (10.4%).

Table 3.27: Awareness of STI and Reported STI Symptoms in the Past Year

Aware of at least one male STI symptoms	MSW/TG-SW			V/TG-Non- W	Total		
	N	%	N	%	N	%	
Yes	121	89.6	225	84.9	346	86.5	
No	14	10.4	40	15.1	54	13.5	
Total	135	100.0	265	100.0	400	100.0	

Most of the MSM (82%) cited genital ulcers as an STI symptom. The other most commonly cited symptoms were genital discharge (47.8%), burning sensation during urination (46.5%), and anal ulcers/sores (33.5%).

More MSWs than non-MSWs could name STI symptoms in males. For instance, a larger proportion of MSWs cited genital ulcers (86.7% MSWs and 79.6% non- MSWs), genital discharge (51.9% MSW and 45.7% non-MSW) and burning pain during urination (49.6% MSWs 44.9% and non-MSWs). Other symptoms were also cited by more MSWs than non-MSWs (Table 3.28).

Table 3.28: Knowledge of Symptoms of STIs

Knowledge of Symptoms of	MSW/TG-SW		Non-MSW/TG- Non-SW		Total	
STIs	N	%	N	%	N	%
Perceived symptoms of male STI *						
Genital discharge	70	51.9	121	45.7	191	47.8
Burning pain during urination	67	49.6	119	44.9	186	46.5
Genital ulcers/sores	117	86.7	211	79.6	328	82.0
Swellings in groin area	44	32.6	47	17.7	91	22.8
Anal discharge	18	13.3	9	3.4	27	6.8
Anal ulcer/sores	49	36.3	85	32.1	134	33.5
Itching in genital parts	31	23.0	50	18.9	81	20.3
Low appetite	1	0.7	7	2.6	8	2.0
Fever	6	4.4	8	3.0	14	3.5
HIV/AIDS	7	5.2	10	3.8	17	4.3
Weight loss	1	0.7	5	1.9	6	1.5
Genital warts	3	2.2	4	1.5	7	1.8
Others	7	5.2	14	5.3	21	5.3
Don't know	14	10.4	40	15.1	54	13.5
Total	135	100.0	265	100.0	400	100.0
Number of known male STI sympt	oms	•				•
None	14	10.4	40	15.1	54	13.5
One symptom	9	6.7	16	6.0	25	6.3

Knowledge of Symptoms of	MSW/TG-SW			SW/TG- n-SW	Total	
STIs	N	%	N	%	N	%
Two symptoms	18	13.3	56	21.1	74	18.5
Three symptoms	29	21.5	77	29.1	106	26.5
Four symptoms	36	26.7	49	18.5	85	21.3
Five symptoms	29	21.5	27	10.2	56	14.0
Total	135	100.0	265	100.0	400	100.0

^{*}Note: Percentages add up to more than 100 because of multiple responses

Overall, 26 percent of the respondents could cite three STI symptoms while 21.5 percent could name four STI symptoms and 18.5 percent could cite at least two symptoms (Table 3.28).

The MSM were then asked if they had ever experienced symptoms such as genital discharge, genital ulcers/sores in the past year. Overall 6 percent of the MSM said that they have had genital discharge, while 20.3 percent said they had experienced genital ulcers/sores in the past year (Table 3.29). Anal ulcers/sores were reported by 7 percent of the MSM. A relatively larger proportion of MSWs (11.9%) than non-MSWs (4.5%) had anal ulcers/sores in the past year. Likewise, symptoms such as genital discharge/penile ulcers/sores were reportedly experienced by more MSWs (21.5%) than non-MSWs (19.6%). On the other hand, more non-MSWs (15.1%) than MSWs (10.4%) have had genital ulcers/sores in the past year.

Table 3.29: Reported STI Symptoms and Treatment in the Past 12 Months

STI symptoms experienced and treatment sought	MSW	//TG-SW	Non-MSW/ TG-Non-SW		Total	
treatment sought	N	%	N	%	N	%
Have you had genital ulcer / discharge / s	ore (peni	s and or an	al) during th	e past 12 mo	onths	
Yes	29	21.5	52	19.6	81	20.3
No	106	78.5	213	80.4	319	79.8
Total	135	100.0	265	100.0	400	100.0
Have you had a urethral discharge during	the past	12 months?)			
Yes	9	6.7	15	5.7	24	6.0
No	126	93.3	250	94.3	376	94.0
Total	135	100.0	265	100.0	400	100.0
Have you had anal discharge during the l	ast 12 mo	nths?				
Yes	8	5.9	6	2.3	14	3.5
No	127	94.1	259	97.7	386	96.5
Total	135	100.0	265	100.0	400	100.0
Have you had a genital ulcer/sore during	the past	12 months?				
Yes	14	10.4	40	15.1	54	13.5
No	121	89.6	225	84.9	346	86.5
Total	135	100.0	265	100.0	400	100.0
Have you had an anal ulcer/sore during t	he past 1	2 months?				
Yes	16	11.9	12	4.5	28	7.0
No	119	88.1	253	95.5	372	93.0
Total	135	100.0	265	100.0	400	100.0
First step taken after experiencing STI						
Sought treatment from hospital	1	3.4	5	9.6	6	7.4
Sought treatment from chemist	7	24.1	14	26.9	21	25.9
Sought treatment from private doctor/clinician			4	7.7	4	4.9
Sought treatment from BDS clinic	2	6.9	4	7.7	6	7.4

STI symptoms experienced and	MSV	MSW/TG-SW		Non-MSW/ TG-Non-SW		Total	
treatment sought	N	%	N	%	N	%	
Sought treatment from 6 Parichaya Samaj	2	6.9	2	3.8	4	4.9	
Sought treatment from Cruse	3	10.3	-	-	3	3.7	
Home remedy	4	13.8	3	5.8	7	8.6	
None	5	17.2	13	25.0	18	22.2	
Sought treatment from SACTS	4	13.8	1	1.9	5	6.2	
Others	1	3.4	6	11.5	7	8.6	
Total	29	100.0	52	100.0	81	100.0	
Days waited for seeking treatment for la	ast experie	nced STI sy	mptom				
Did not seek treatment	6	27.3	14	29.8	20	29.0	
1 day	1	4.5	3	6.4	4	5.8	
2-7 days	12	54.5	19	40.4	31	44.9	
8-30 days	3	13.6	7	14.9	10	14.5	
31-90 days			4	8.5	4	5.8	
Total	22	100.0	47	100.0	69	100.0	
Amount spent for the treatment last ST	symptom	(including o	doctor' fee a	nd other me	edical exper	nses)	
Free of cost	7	43.8	8	24.2	15	30.6	
5-90	2	12.5			2	4.1	
91-200	2	12.5	8	24.2	10	20.4	
201-5500	5	31.3	17	51.5	22	44.9	
Total	16	100.0	33	100.0	49	100.0	

^{*}Note: Percentages add up to more than 100 because of multiple responses

Around 25.9 percent of those who had sought treatment had gone to chemist shop, while 7 percent each of the respondents had sought treatment from a hospital or from BDS clinic and almost an equal percentage of MSM respondents (8.6%) reported that they had used medicine that was available at home. A quarter of non-MSW (25%) and less than a fifth of the MSW (17.2%) said that they did nothing.

A larger proportion of MSW than non-MSW had sought treatment from the clinics of SACTS, Parichaya Samaj and Crusede and resorted to home remedy while a larger proportion of non-MSWs than MSWs had been to a pharmacy and hospital and had sought treatment from private clinic (Table 3.29).

Of those who went to a doctor or pharmacy/clinic, 44.9 percent had waited up to one week before seeking treatment. The range of cost for treatment varied from NRs.5 to NRs. 5500. Higher proportion of MSM (44.9%) had spent NRs. 201 to 5500 for the treatment of STI. About one third of MSM (30.6%) received the treatment free of cost (Table 3.29).

As seen in Table 3.30, 21.5 percent of MSWs and 19.6 percent non-MSWs had reportedly experienced at least one symptom of STI in the past year. Among those MSM who had reported experiencing STIs in the past year, 29 percent had never sought any treatment; this included more non-MSWs (29.8%) than MSWs (27.3%).

Table 3.30: STI Symptoms Experienced in the Past Year and Treatment Status

STI Symptoms Experienced in the Past	MSW/	MSW/TG-SW		Non-MSW/TG- Non-SW		Total			
Year and Treatment Status	N	%	N	%	N	%			
Have you had genital ulcer / discharge / sore (p	enis and o	r anal) dui	ing the p	ast 12 moi	nths				
Yes	29	21.5	52	19.6	81	20.3			
No	106	78.5	213	80.4	319	79.8			
Total	135	100.0	265	100.0	400	100.0			
Days waited for seeking treatment for last expe	Days waited for seeking treatment for last experienced STI symptom								
Did not seek treatment	6	27.3	14	29.8	20	29.0			
1 day	1	4.5	3	6.4	4	5.8			
2-7 days	12	54.5	19	40.4	31	44.9			
8-30 days	3	13.6	7	14.9	10	14.5			
31-90 days			4	8.5	4	5.8			
Median		2		3		3			
Mean		5		10.09		8.46			
Total	22	100.0	47	100.0	69	100.0			

3.7.2 Knowledge about HIV

Respondents were asked about measures to prevent HIV. Their understanding of the major HIV/AIDS prevention measures was assessed, including abstinence from sex (A); being faithful to one sex partner (B); and consistent condom use (C). Nearly all of them knew that consistent use of condoms (97.5%) and being faithful to one partner (92.8%) will reduce the risk of HIV/AIDS. While two third (65.5%) stated abstinence from sexual contact was one of the ways of preventing HIV.

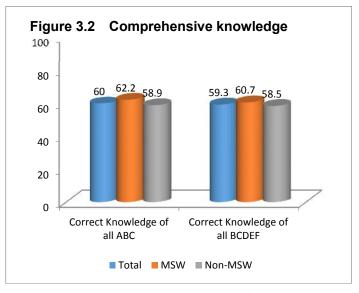
Table 3.31: Knowledge about Prevention of HIV

Knowledge about Prevention	MSW/TG-SW		Non-MSW/ TG-Non-SW		Total					
of HIV	N	%	N	%	N	%				
Can people protect themselves from	om HIV by at	staining fro	m sexual into	ercourse? (Th	nis means ab	staining				
from anal as well as oral sex)										
Yes	94	69.6	168	63.4	262	65.5				
No	41	30.4	95	35.8	136	34.0				
Don't know			2	.8	2	.5				
Total	135	100.0	265	100.0	400	100.0				
Can people protect themselves from HIV by having one uninfected faithful sex partner?										
Yes	123	91.1	248	93.6	371	92.8				
No	12	8.9	16	6.0	28	7.0				
Don't know			1	.4	1	.3				
Total	135	100.0	265	100.0	400	100.0				
Can people reduce their risk of HI	V by using a	condom cor	rectly every	time they ha	ve sex?					
Yes	131	97.0	259	97.7	390	97.5				
No	4	3.0	5	1.9	9	2.3				
Don't know			1	.4	1	.3				
Total	135	100.0	265	100.0	400	100.0				
Do you think that a healthy-lookir	ng person ca	n be infected	l with HIV, tl	ne virus that	causes AIDS	?				
Yes	128	94.8	230	86.8	358	89.5				
No	6	4.4	32	12.1	38	9.5				
Don't know	1	.7	3	1.1	4	1.0				
Total	135	100.0	265	100.0	400	100.0				
Can a person get the HIV virus fro	m mosquito	bites?								

Knowledge about Prevention	MSW/TG-SW		_	MSW/ on-SW	Total		
of HIV	N	%	N	%	N	%	
Yes	31	23.0	62	23.4	93	23.3	
No	99	73.3	190	71.7	289	72.3	
Don't know	5	3.7	13	4.9	18	4.5	
Total	135	100.0	265	100.0	400	100.0	
Can a person get the HIV virus by	sharing meal	with some	ne who is in	fected?			
Yes	7	5.2	22	8.3	29	7.3	
No	128	94.8	238	89.8	366	91.5	
Don't know	-	-	5	1.9	5	1.3	
Total	135	100.0	265	100.0	400	100.0	

Additionally, nine in ten respondents knew that a healthy-looking person can be infected with HIV (D: 89.5%); and HIV cannot be transmitted while sharing meal with an HIV-infected person (F: 91.5%). However, a relatively smaller proportion of MSM (E: 72.3 %) agreed that a person cannot get the HIV virus from a mosquito bite.

Overall, 60 percent of MSM were aware of all three major modes of transmission, i.e. 'ABC' (62.2% MSWs and 58.9% non-MSWs). On the other hand, 59.3 percent were aware of five ways –BCDEF- by which



one can protect oneself against HIV and ways in which it cannot be transmitted (60.7% MSWs and 58.5% non-MSWs)(Figure 3.2).

More MSWs (68.1%) than non-MSWs (49.8%) knew someone living with HIV or who had died of an HIV- related illness. When asked about the type of relationship they shared with such individuals, 15.2 percent of MSWs and 14.4 percent non-MSWs said they were close friends or relatives. Four fifth of the MSM (85.3%) had heard/seen such people but did not have any relationship with them (Table 3.32).

Table 3.32: Knowledge on Ways of HIV/AIDS Transmission

Statements related to HIV/AIDS	MSW/	MSW/TG-SW		-MSW/ lon-SW	Total					
	N	%	N	%	N	%				
Know a person who is infected with HIV or who has died of AIDS										
Yes	92	68.1	132	49.8	224	56.0				
No	43	31.9	133	50.2	176	44.0				
Total	135	100.0	265	100.0	400	100.0				
Related shared with the person wh	o is infected	l with HIV o	has died of	AIDS						
Yes	14	15.2	19	14.4	33	14.7				
No	78	84.8	113	85.6	191	85.3				
Total	92	100.0	132	100.0	224	100.0				
Can people reduce their risk of HIV	by using a c	ondom corr	ectly every t	ime they hav	e anal sex?)				

Statements related to HIV/AIDS	MSW	/TG-SW		-MSW/ lon-SW	To	otal
	N	%	N	%	N	%
Yes	133	98.5	260	98.1	393	98.3
No	2	1.5	3	1.1	5	1.3
Don't know			2	.8	2	.5
Total	135	100.0	265	100.0	400	100.0
Can a person get the HIV virus by u	sing a needl	e that is use	d by someo	ne else?		
Yes	132	97.8	261	98.5	393	98.3
No	3	2.2	3	1.1	6	1.5
Don't know			1	.4	1	.3
Total	135	100.0	265	100.0	400	100.0
Can blood transfusion from an infe	cted person	to the other	transmit H	IV?		
Yes	135	100.0	264	99.6	399	99.8
Don't know			1	.4	1	.3
Total	135	100.0	265	100.0	400	100.0
Can a person get HIV by shaking ha	nd with an I	HIV infected	person?			
Yes	2	1.5	7	2.6	9	2.3
No	133	98.5	254	95.8	387	96.8
Don't know			4	1.5	4	1.0
Total	135	100.0	265	100.0	400	100.0
Can a pregnant woman infected wi	th HIV trans	mit the virus	s to her unb	orn child?		
Yes	127	94.1	245	92.5	372	93.0
No	6	4.4	10	3.8	16	4.0
Don't know	2	1.5	10	3.8	12	3.0
Total	135	100.0	265	100.0	400	100.0
Can women with HIV transmit the	virus to her	newborn chi	ld through I	breast-feeding	g?	
Yes	111	82.2	191	72.1	302	75.5
No	18	13.3	46	17.4	64	16.0
Don't know	6	4.4	28	10.6	34	8.5
Total	135	100.0	265	100.0	400	100.0
What can a pregnant woman do to	protect her	unborn child	d against th	e risk of HIV t	ransmissio	n?
Take medicine	31	24.4	59	24.1	90	24.2
Take doctor's advice	21	16.5	35	14.3	56	15.1
Avoid unsafe sex	-	-	5	2.0	5	1.3
Go for treatment	3	2.4	5	2.0	8	2.2
Others	1	.8	4	1.6	5	1.3
Don't know	71	55.9	137	55.9	208	55.9
Total	127	100.0	245	100.0	372	100.0

The respondents' perception on HIV/AIDS and its different modes of transmission were further tested with the help of certain probing questions. Almost all of the respondents knew the correct condom usage for each act of anal sex reduces the risk of HIV transmission (98.3%) and that injecting with a previously used needle (98.35%) and having a blood transfusion from an HIV-positive person (99.8%) will transmit the virus. They also knew that holding an HIV infected person's hand does not transmit HIV (96.8%) and that a woman with HIV/AIDS can transmit the virus to her newborn child (93%). However, a comparatively lower proportion of non-MSWs (72.1%) than MSWs (82.2%) believed that a woman with HIV/AIDS can transmit the virus to her newborn child through breastfeeding.

Twenty four percent of respondents stated that pregnant women can protect her unborn child against the risk of HIV transmission by taking medicine and by taking doctor's advice was cited by 15.1 percent.

3.7.3 Knowledge about HIV Testing Facilities

The availability of and awareness about confidential HIV testing allows people to undertake HIV tests promptly and without the fear of being exposed. Seventy two percent of the MSM (84.4% MSWs and 66.8% non-MSWs) knew about the existence of a confidential HIV testing facility in their community. Among these, more MSWs (78.5%) than non-MSWs (54.3%) had ever taken an HIV test. The majority of both MSWs (80.2%) and non-MSWs (72.9%) had taken up the test voluntarily. Almost all (96.2% MSWs and 98.6% non-MSWs) had also received their HIV test results. Most of those who had been tested (92.4%) had been given counseling at the time of the HIV test.

Two-thirds (67.7%) of MSM had their most recent HIV test within the last one year (76.4% MSWs and 61.8% non-MSWs). One third had been tested more than one year before.

Table 3.33: Perception on HIV Testing

Perception on HIV Testing	MSW/	MSW/TG-SW		Non-MSW/ TG-Non-SW		Total	
	N	%	N	%	N	%	
Confidential HIV testing facility as	ailable in the	community					
Yes	114	84.4	177	66.8	291	72.8	
No	19	14.1	78	29.4	97	24.3	
Don't know	2	1.5	10	3.8	12	3.0	
Total	135	100.0	265	100.0	400	100.0	
Ever had an HIV test							
Yes	106	78.5	144	54.3	250	62.5	
No	29	21.5	121	45.7	150	37.5	
Total	135	100.0	265	100.0	400	100.0	
HIV self-tested with recommende	d by others						
Yes	85	80.2	105	72.9	190	76.0	
No	21	19.8	39	27.1	60	24.0	
Total	106	100.0	144	100.0	250	100.0	
Received HIV test result							
Yes	102	96.2	142	98.6	244	97.6	
No	4	3.8	2	1.4	6	2.4	
Total	106	100.0	144	100.0	250	100.0	
Received counseling at the time of	of HIV						
Yes	98	92.5	133	92.4	231	92.4	
No	8	7.5	11	7.6	19	7.6	
Total	106	100.0	144	100.0	250	100.0	
Time of most recent HIV test		·					
Within past one year	81	76.4	89	61.8	170	68.0	
One year before	25	23.6	55	38.2	80	32.0	
Total	106	100.0	144	100.0	250	100.0	

3.7.4 Perception on Risk of HIV among MSM/TG

After assessing their awareness about HIV the respondents were asked what measures they had adopted to avoid getting HIV. In response, 93.3 percent of MSWs and 83.4 percent of non-MSWs mentioned that they have been consistently using condoms. A smaller proportion of them also pointed out that they had avoided skin pricking (11.5%), not shared needles (6%), and had practiced safe sex (6.5%) while 5% take no precautionary measures.

Table 3.34: Risk Perception and Reason for Such Perception

Risk Perception and Reason for	MSW	/TG-SW		ISW/TG- n-SW	Total		
Such Perception	N	%	N	%	N	%	
Measures adopted to avoid getting HIV	/ *	1					
Take medicine	1	.7	1	.4	2	.5	
None	4	3.0	16	6.0	20	5.0	
Always use condom	126	93.3	221	83.4	347	86.8	
Avoid use of needle syringe	10	7.4	14	5.3	24	6.0	
Avoid sex with unknown person	3	2.2	10	3.8	13	3.3	
Avoid skin pricking tools	11	8.1	35	13.2	46	11.5	
Safe sex	7	5.2	19	7.2	26	6.5	
Blood transfusion after testing only	3	2.2	6	2.3	9	2.3	
Use Lubricant	9	6.7	1	.4	10	2.5	
Gone for test	7	5.2	3	1.1	10	2.5	
Others	9	6.7	25	9.4	34	8.5	
Don't know			1	.4	1	.3	
Total	135	100.0	265	100.0	400	100.0	
Risk perception level	•						
High risk	24	17.8	16	6.0	40	10.0	
Some risk	25	18.5	45	17.0	70	17.5	
Little or no risk	86	63.7	202	76.2	288	72.0	
Don't know			2	.8	2	.5	
Total	135	100.0	265	100.0	400	100.0	
Reason for considering self at risk of H	IV *				•		
High risk job	25	51.0	10	16.4	35	31.8	
Multiple sex partners	39	79.6	27	44.3	66	60.0	
Frequent and regular anal sex	21	42.9	32	52.5	53	48.2	
Don't use condoms	6	12.2	13	21.3	19	17.3	
Irregular condom use	10	20.4	12	19.7	22	20.0	
Needles sharing	1	2.0			1	.9	
Sometime condom breakage	13	26.5	16	26.2	29	26.4	
Others	3	6.1	7	11.5	10	9.1	
Total	49	100.0	61	100.0	110	100.0	
Reason for perceiving self at little or n	o risk of HIV	*					
Always use condoms	83	79.0	180	74.7	263	76.0	
Only one sex partner	2	1.9	18	7.5	20	5.8	
Partners are clean	6	5.7	25	10.4	31	9.0	
Partners are healthy	9	8.6	39	16.2	48	13.9	
Never share injections	27	25.7	70	29.0	97	28.0	
Very few sex partners	2	1.9	13	5.4	15	4.3	
Sex with faithful partner only			6	2.5	6	1.7	
Regular health checkup	4	3.8	5	2.1	9	2.6	
Others	15	14.3	22	9.1	37	10.7	
No response	13	12.4	22	9.1	35	10.1	
Total	105	100.0	241	100.0	346	100.0	

^{*}Multiple responses allowed.

An effort was also made to understand whether or not the MSM perceived them to be at risk of HIV infection. Around three in four respondents (63.7% of MSWs and 76.2% of non-MSWs) perceived themselves to be at little or no risk of contracting HIV. At the same time 17.5 percent of them (18.5% MSWs and 17% non-MSWs) thought that they were at some risk while 10 percent (17.8% MSWs and 6% non-MSWs considered that they were at high risk of getting HIV.

Those MSM who considered themselves at some risk of getting HIV thought so mainly because of having multiple sex partners (60%), frequent anal sex (48.2%), condom breakage during sexual contact (26.4%) irregular use of condoms (20%) and not using condom (17.3%). A relatively larger proportion of MSWs than non-MSWs cited some of these underlying reasons for their risk perception (Table 3.34).

On the other hand, those MSM who saw themselves at little or no risk of getting HIV thought so mainly because they used a condom consistently (79% MSWs and 74.7% non-MSWs). However, there were some respondents (8.6% MSWs and 16.2% non-MSWs) who assumed that they could not get HIV because they had healthy partners, and some who said that they could not have the disease since their partners are clean (5.7% MSWs and 10.4% non-MSWs).

3.7.5 Attitude towards HIV

The stigma associated with HIV increases the impact of HIV on the patient as well as on the key population at higher risk. The perception of MSM about HIV- positive persons and the stigma associated with the disease was examined with the help of series of questions as shown in Table 3.35.

The majority of the respondents were ready to take care of an HIV-positive male relative (97% MSWs and 90.2% of non-MSWs) or an HIV-positive female relative (94.1% MSWs and 89.8% of non-MSWs) in their homes if necessary. On the other hand, around six in ten MSM (59.3% MSWs and 65.3% of non-MSWs) said that if a family member had HIV they would rather keep it confidential and not talk about it with others.

The majority of MSM (95.6% MSWs and 94.7% non-MSWs) said that they would readily buy food from an HIV-positive vendor. An equally high proportion of them (93.3% MSWs and 94% non-MSWs) also agreed that unless very sick, people with HIV should be allowed to continue in their jobs.

When asked about the health care needs of HIV-positive patients, 54.8 percent of MSWs and 47.9 percent of non-MSWs maintained that they should be provided the same care and treatment as necessary for any patient of a chronic disease, while 43.7 percent of MSWs and 49.4 percent of non-MSWs believed that the health care needs of an HIV-infected person were more than people suffering from other chronic diseases (Table 3.35).

Table 3.35: Perception and Stigma of HIV

Perception and Stigma of HIV	MSW/TG-SW		Non-MSW/ TG-Non-SW		Total					
	N	%	N	%	N	%				
Willing to take care of an HIV positive male relative at home										
Yes	131	97.0	239	90.2	370	92.5				
No	4	3.0	24	9.1	28	7.0				
Don't know	-	-	2	.8	2	.5				
Total	135	100.0	265	100.0	400	100.0				
Willing to take care of HIV positive	female rela	tive at hom	е							
Yes	127	94.1	238	89.8	365	91.3				
No	8	5.9	24	9.1	32	8.0				
Don't know	-	-	3	1.1	3	.8				
Total	135	100.0	265	100.0	400	100.0				
Would prefer to hide the HIV positi	ive status of	f a family me	ember							
Yes	80	59.3	173	65.3	253	63.3				

Perception and Stigma of HIV	MSW/	MSW/TG-SW		MSW/ on-SW	Total					
	N	%	N	%	N	%				
No	54	40.0	91	34.3	145	36.3				
Don't know	1	.7	1	.4	2	.5				
Total	135	100.0	265	100.0	400	100.0				
Would buy supplies from HIV Infected shopkeeper										
Yes	129	95.6	251	94.7	380	95.0				
No	6	4.4	13	4.9	19	4.8				
Don't know	-	-	1	.4	1	.3				
Total	135	100.0	265	100.0	400	100.0				
Believe that an HIV infected person	n who is not	so sick shou	ıld be allow	ed to contin	ue his/her j	ob				
Yes	126	93.3	249	94.0	375	93.8				
No	9	6.7	15	5.7	24	6.0				
Don't know	-	-	1	.4	1	.3				
Total	135	100.0	265	100.0	400	100.0				
Believe that an HIV infected persor	n should be	provided eq	ual, more o	r less health	care compa	red to				
other person with chronic										
Same	74	54.8	127	47.9	201	50.3				
More	59	43.7	131	49.4	190	47.5				
Less	2	1.5	6	2.3	8	2.0				
Don't know			1	.4	1	.3				
Total	135	100.0	265	100.0	400	100.0				

3.7.6 Physical and Sexual Violence against MSM and TG

Many studies have shown that MSM are also subjected to discrimination and physical violence because of their sexual orientation. This study tried to find out if any of the study participants had been subjected to violence and discrimination in the past year.

Overall, one in seven of the MSM had been beaten up (14.3%), and equal percentage had been forced to have sex (13%), one in five had been threatened (22.3%) and an equal proportion had faced discrimination at work (19.8%) in the past year. In addition one in four (25.8%) had faced different problems because of their sexual identity (43% MSWs and 17% non-MSWs).

Table 3.36: Personal Experience of Violence and Discrimination in the Past 12 Months

Subjected to Violence/ Discrimination	MSW/TG-SW		Non-MSW/ TG-Non-SW		Total				
	N	%	N	%	N	%			
Was beaten up in the past 12 months									
Yes	39	28.9	18	6.8	57	14.3			
No	96	71.1	247	93.2	343	85.8			
Total	135	100.0	265	100.0	400	100.0			
Was beaten up by *					•	,			
Police	24	61.5	6	33.3	30	52.6			
Military	3	7.7	1	5.6	4	7.0			
Client	12	30.8	1	5.6	13	22.8			
Sexual Partner	3	7.7	5	27.8	8	14.0			
Hooligans group	11	28.2	2	11.1	13	22.8			
Others	5	12.8	2	11.1	7	12.3			
Don't know	-	-	1	5.6	1	1.8			
Total	39	100.0	18	100.0	57	100.0			

Subjected to Violence/ Discrimination	MSW	MSW/TG-SW		MSW/ on-SW	Total	
	N	%	N	%	N	%
Was forced to have sex in the past 12 mo	nths					
Yes	28	20.7	24	9.1	52	13.0
No	107	79.3	241	90.9	348	87.0
Total	135	100.0	265	100.0	400	100.0
People who forcefully had sex *						
Police	9	32.1	5	20.8	14	26.9
Military	3	10.7	-	-	3	5.8
Client	6	21.4	5	20.8	11	21.2
Regular Partner	3	10.7	1	4.2	4	7.7
Sexual Partner	4	14.3	9	37.5	13	25.0
Hooligans group	8	28.6	5	20.8	13	25.0
Others	6	21.4	2	8.3	8	15.4
Total	28	100.0	24	100.0	52	100.0
Was blackmailed in the past 12 months	•					
Yes	57	42.2	32	12.1	89	22.3
No	78	57.8	233	87.9	311	77.8
Total	135	100.0	265	100.0	400	100.0
Faced discrimination at job or everyday li	fe in the p	ast 12 mon	ths			
Yes	43	31.9	36	13.6	79	19.8
No	92	68.1	229	86.4	321	80.3
Total	135	100.0	265	100.0	400	100.0
Ever experienced any kind of problems d	ue to sexua	al orientation	on			
Yes	58	43.0	45	17.0	103	25.8
No	77	57.0	220	83.0	297	74.3
Total	135	100.0	265	100.0	400	100.0

^{*}Note: The percentages add up to more than 100 because of multiple responses.

MSWs reported to be more vulnerable to the social stigma associated with their sexual preference than non-MSWs. More MSWs than non-MSWs had been subjected to physical/sexual violence such as beatings (28.9% of MSWs and 6.8% of non-MSWs), forced sex (20.7% of MSWs and 9.1% of non-MSWs), blackmailing (42.2% of MSWs and 12.1% of non-MSWs) and discrimination at job or daily life (31.9% of MSWs and 13.6% of non-MSWs) in the past year (Table 3.36).

The police, sexual partners and hooligans are the main offenders. Two-thirds of the MSM (52.6%) who were beaten up in the last 12 months, were beaten up by the police, and one-fourth (22.8%) by hooligans. MSWs were particularly vulnerable to forced sex by police (26.9%), hooligans and sexual partner (25% each). Non-MSWs were more likely to be assaulted by their sex partners (41.7%).

3.8 Exposure to HIV Prevention Interventions

Various intervention programs are underway to create awareness and educate people in HIV/AIDS and to disseminate information regarding preventive measures. Some of these programs target specific key population at higher risk groups while some others conduct general awareness campaigns. Respondents' exposures to the ongoing HIV/AIDS awareness programs and their participation in these activities have been assessed in this chapter.

3.8.1 Peer/Outreach Education

Mobilization of peer educators, outreach educators and community mobilizers/community educators (PEs/OEs/CMs/CEs) in conducting awareness raising activities at different sites in the community is

one of the major components of awareness raising component of ongoing prevention programs. They meet the target groups and hold discussions regarding HIV/AIDS and safe injecting practices, safe sex and other related topics. They also distribute Information, Education and Communication (IEC) materials, condoms, and refer the target groups to drop-in centers (DICs) and STI treatment services.

Table 3.37: Meeting/Interaction with Peer /Outreach Educator/Community Mobilizer/Community Educator

Exposure to HIV Prevention Interventions	MSW	/TG-SW	Non-MSW/ TG-Non-SW		Total	
	N	%	N	%	N	%
Met/discussed/interacted with peer/outrea	ch educa	tors or co	mmunity	mobilize/ co	mmunity e	ducator
in the last 12 months						
Yes	113	83.7	172	64.9	285	71.3
No	22	16.3	93	35.1	115	28.8
Total	135	100.0	265	100.0	400	100.0
Activities carried out with/by PE/OE/CM/CE	s *					
Discussion on how HIV/AIDS is/isn't transmitted	108	95.6	154	89.5	262	91.9
Discussion on how STI is/isn't transmitted	90	79.6	123	71.5	213	74.7
Regular/non-regular use of Condom	72	63.7	110	64.0	182	63.9
Demonstration on using condom correctly	57	50.4	79	45.9	136	47.7
Received condom/Lubricants	19	16.8	31	18.0	50	17.5
Counseling	3	2.7	6	3.5	9	3.2
Others	12	10.6	9	5.2	21	7.4
Total	113	100.0	172	100.0	285	100.0
Organizations represented by PW/OE/CM/C	Es *					
BDS	74	65.5	103	59.9	177	62.1
Parichaya Samaj	36	31.9	45	26.2	81	28.4
Cruisedes	51	45.1	63	36.6	114	40.0
Others	5	4.4	8	4.7	13	4.6
Don't know	3	2.7	16	9.3	19	6.7
Total	113	100.0	172	100.0	285	100.0
Number of meetings with PE or OE or CM or	CEs in th	e past 12	months			
One	4	3.5	12	7.0	16	5.6
1-3 times	9	8.0	23	13.4	32	11.2
4-6 times	12	10.6	24	14.0	36	12.6
7-12 times	21	18.6	33	19.2	54	18.9
More than 12 times	67	59.3	80	46.5	147	51.6
Total	113	100.0	172	100.0	285	100.0

^{*}Note: The percentages add up to more than 100 because of multiple responses.

Seventy one percent of the MSM had met PEs/OEs at least once in the past year. A relatively higher proportion of MSWs (83.7%) than non-MSWs (64.9%) had met PEs/OEs/CMs/CEs in the last year. In PE/OE meetings, respondents had mostly discussed HIV transmission (91.9%) and STI transmission (74.7%). Over three fifth had been told about using condom correctly and consistently (63.9%), nearly one-half had been given a demonstration on using condoms correctly (47.7%), and one in six had also received condoms and or lubricants (17.5%). It is evident from Table 8.1 that the MSM meet PEs/OEs/CMs/CEs quite often, as 51.6 percent of the MSM (59.3% MSW and 46.5% non-MSW) had met with PEs/OEs/CMs/CEs more than 12 times in the past year. There were a few MSM (3.5% of MSWs and 7% of non-MSWs) who had met PE/OE/CMs/CEs only once in the past year. The MSM had mostly met PEs/OEs/CMs/CEs from the Blue Diamond Society (62.1%), Cruisedes (40%), and Parichaya Samaj (28.4%).

3.8.2 Drop-in-Centers Visiting Practice

Outreach centers like DICs/information centers (IC)/Counseling Centers (CC) are another important component of the HIV prevention programs. Such centers not only provide a safe space for the target communities to socialize, but are also a site for educational and counseling activities. They offer a number of services to the target group, including counseling, group classes and discussions, individual counseling, and video shows on STIs/HIV/AIDS and also provide IEC materials and condoms for MSM.

Table 3.38: Outreach Center Visiting Practices

Outreach Center Visiting Practices	MSW/	TG-SW		MSW/ on-SW	To	otal
_	N	%	N	%	N	%
Activities carried out with/by PE/OE/CM/CEs *						
Went to collect condoms	64	62.7	85	61.2	149	61.8
Went to learn the correct way of using condom	47	46.1	78	56.1	125	51.9
Went to watch film on HIV/AIDS	36	35.3	33	23.7	69	28.6
Participated in discussion on HIV transmission	81	79.4	111	79.9	192	79.7
Took suggestion about safe sex	3	2.9	1	.7	4	1.7
Collect lubricants	1	1.0	3	2.2	4	1.7
Gathering with friends	2	2.0	4	2.9	6	2.5
Information about HIV	1	1.0	3	2.2	4	1.7
Others	12	11.8	12	8.6	24	10.0
Don't know			1	.7	1	.4
Total	102	100.0	139	100.0	241	100.0
Name of organizations that run the visited DIC/	IC/CC *					
BDS	64	62.7	80	57.6	144	59.8
Parichaya Samaj	27	26.5	47	33.8	74	30.7
Cruisedes	54	52.9	68	48.9	122	50.6
SACTs	10	9.8	7	5.0	17	7.1
FNCC	1	1.0	1	.7	2	.8
Others	1	1.0	9	6.5	10	4.1
Don't know	1	1.0			1	.4
Total	102	100.0	139	100.0	241	100.0
Number of visits to the DIC/IC/CC in the past 12	months					1
One	4	3.9	11	7.9	15	6.2
1-3 times	20	19.6	42	30.2	62	25.7
4-6 times	15	14.7	26	18.7	41	17.0
7-12 times	10	9.8	15	10.8	25	10.4
More than 12 times	53	52.0	45	32.4	98	40.7
Total	102	100.0	139	100.0	241	100.0

^{*}Note: The percentages add up to more than 100 because of multiple responses.

Around 55 percent of the MSM had visited a DIC/IC/CC in the past year; this included a larger proportion of MSWs than non-MSWs (78.5% MSWs and 42.3% non-MSWs). The majority (79.7%) of those who visited a DIC/IC/CC in the last year had taken part in discussions relating to HIV transmission at DICs, 61.8 had collected condoms from there, while 51.9 percent had learnt the correct way of using a condom. Moreover, 28.6 percent of them had watched a movie related to HIV.

Overall, DICs run by BDS were the most frequently visited DICs by the respondents participating in this survey (62.7% MSWs and 57.6% non-MSWs); followed by the SACTS (50.6%) and Parichaya Samaj (30.7%). MSWs were more likely to visit DICs run by BDS and SACTS while more non-MSWs

likely to visit DIC run by Parichaya Samaj. MSWs also tend to visit DICs more often than non-MSWs. Nearly 52 percent of MSWs had visited a DIC more than 12 times in the past year, while among non-MSWs 32.4 percent had reported doing so.

3.8.3 STI Clinic Visiting Practices

MSM who are engaged in unsafe sexual encounters are at high risk of STIs. Timely detection of STIs may prevent them from serious health problems. There are different clinics being run by various government as well as non-government organizations for providing STI testing and treatment. Only about one-sixth (16.3%) of respondents had visited an STI clinic in the past year. Most of those who visited an STI clinic had visited for physical examination (61.6%), had given their blood sample for STI detection (58.5%), had discussed on how the STI is transmitted (55.4%), and use of condoms at the clinic (33.8%).

Table 3.39: STI Clinic Visiting Practices

STI Clinic Visiting Practices	MSW	/TG-SW		V/TG-Non-	To	otal
	N	%	N	%	N	%
Visited any STI clinic in the past 12 mo	nths					
Yes	32	23.7	33	12.5	65	16.3
No	103	76.3	232	87.5	335	83.8
Total	135	100.0	265	100.0	400	100.0
Participated activities at STI Clinic *						
Blood tested for STI	19	59.4	19	57.6	38	58.5
Physical examination conducted for STI identification	19	59.4	23	69.7	42	64.6
Discussed on how STI is/isn't transmitted	20	62.5	16	48.5	36	55.4
Discussed on regular/non-regular	13	40.6	9	27.3	22	33.8
use of condom						
Took a friend with me	6	18.8	6	18.2	12	18.5
Others			5	15.2	5	7.7
Total	32	100.0	33	100.0	65	100.0
Name of the organization that run the	visited STI	clinic *				
BDS	8	25.0	8	24.2	16	24.6
Parichaya Samaj	7	21.9	8	24.2	15	23.1
Cruisedes	12	37.5	8	24.2	20	30.8
SACTs	10	31.3	6	18.2	16	24.6
CAC	1	3.1			1	1.5
Clinic	3	9.4	6	18.2	9	13.8
Others	1	3.1	9	27.3	10	15.4
Number of visits to STI clinics in the pa	st 12 mont	:hs				
One time	12	37.5	12	36.4	24	36.9
1-3 times	14	43.8	11	33.3	25	38.5
4-6 times	2	6.3	6	18.2	8	12.3
7-12 times	2	6.3	1	3.0	3	4.6
More than 12 times	2	6.3	3	9.1	5	7.7
Total	32	100.0	33	100.0	65	100.0

^{*}Note: The percentages add up to more than 100 because of multiple responses.

The most visited STI clinics were run by Cruisedes (30.8%) followed by BDS and SACTS (24.6% each). While 38.5 percent had visited an STI clinic 2 to 3 times in the past year and 36.9 percent of the MSM had visited such a clinic once. Very few (7.7%) MSM had been to an STI clinic more than 12 times in

the last year (Table 3.39). Percentage of non-MSWs visiting STI clinics more than 12 times in the past year (9.1%) was higher compared to MSWs (6.3%).

3.8.4 HIV Testing and Counseling Centers Visiting Practice

VCT centers provide HIV and STI tests along with pre- and post-test counseling. Information related to safe injecting practices, HIV and STI transmission, and treatment facilities are also disseminated from these centers. VCT centers form an integral part of the HIV prevention program.

Overall, 44.8 percent of the MSM had visited a VCT center in the past year, with more MSWs (64.4%) than non-MSWs (34.7%). The majority of those who had been to a VCT center had given a blood sample for HIV testing (87.2%), had received pre-test counseling (83.8%), had received the HIV test result (72.1%) and had received post-HIV test counseling (67.6%).

Table 3.40: VCT Visiting Practices

VCT Visiting Practices	MSW	/TG-SW		MSW/TG- on-SW	То	tal
	N	%	N	%	N	%
Visited VCT center in the past 12 months						
Yes	87	64.4	92	34.7	179	44.8
No	48	35.6	173	65.3	221	55.3
Total	135	100.0	265	100.0	400	100.0
Activities participated in at VCT Center *						
Received pre-HIV/AIDS test counseling	74	85.1	76	82.6	150	83.8
Blood sample taken for HIV/AIDS test	78	89.7	78	84.8	156	87.2
Received post HIV/AIDS test counseling	61	70.1	60	65.2	121	67.6
Received HIV/AIDS test result	65	74.7	64	69.6	129	72.1
Received counseling on using condom	46	52.9	43	46.7	89	49.7
correctly in each sexual	40	32.3	43	40.7	0.5	43.7
Took a friend with me	2	2.3	9	9.8	11	6.1
Received information on HIV/AIDS window	4	4.6	1	1.1	5	2.8
period	4	4.0	1	1.1	J	2.0
Others	2	2.3	2	2.2	4	2.2
Total	87	100.0	92	100.0	179	100.0
Name of the organization that run the visited	VCT *					
BDS	38	43.7	36	39.1	74	41.3
Parichaya Samaj	23	26.4	23	25.0	46	25.7
Cruisedes	41	47.1	34	37.0	75	41.9
SACTs	12	13.8	8	8.7	20	11.2
CAC	2	2.3	-	-	2	1.1
Others	6	6.9	8	8.7	14	7.8
Don't know	1	1.1	3	3.3	4	2.2
Total	87	100.0	92	100.0	179	100.0

^{*}Multiple responses allowed.

About two-fifth of the MSM had visited a VCT centre run by Cruisedes and BDS, while 25.7 percent had been to the VCT centre of Parichaya Samaj and 11.2 percent to the SACTS VCT centers. While 21.1 percent of the MSM had visited a VCT center once in the past year, 38.3 of them had visited such center more than 12 times. More MSWs (53.3%) than non- MSWs (21.7%) had been such frequent visitors (Table 3.40).

3.8.5 Participation in HIV Awareness Programme

Various government departments as well as non-government organizations have been involved in implementing HIV awareness activities. Their programs include workshops, group discussions, talk programs, training sessions, radio programs, Condom Day, AIDS Day and street theatre. Some of these programs specifically target MARPs while some include the general population.

Table 3.41: Participation in STI/HIV/AIDS Awareness Program

Participations in HIV/AIDS Awareness Programs	MSW/	TG-SW		MSW/ on-SW	Total		
	N	%	N	%	N	%	
Ever participated in HIV/AIDS awareness rais	ing program o	or commun	nity event	:S			
Yes	75	55.6	110	41.5	185	46.3	
No	60	44.4	155	58.5	215	53.8	
Total	135	100.0	265	100.0	400	100.0	
Activities participated in STI/HIV/AIDS Aware	eness Progran	า *					
Street drama	36	48.0	38	34.5	74	40.0	
AIDS Day	44	58.7	52	47.3	96	51.9	
Condom Day	49	65.3	52	47.3	101	54.6	
Video Shows	2	2.7	6	5.5	8	4.3	
Group discussions	30	40.0	47	42.7	77	41.6	
Talk programs	-	-	1	.9	1	.5	
HIV/AIDS related training	14	18.7	27	24.5	41	22.2	
HIV/AIDS related Workshops	9	12.0	22	20.0	31	16.8	
Condom use demonstrations	10	13.3	13	11.8	23	12.4	
Others	9	12.0	11	10.0	20	10.8	
Total	75	100.0	110	100.0	185	100.0	
Name of the organization that organized sucl	h activities						
BDS	53	70.7	67	60.9	120	64.9	
Parichaya Samaj	20	26.7	32	29.1	52	28.1	
Cruisedes	34	45.3	38	34.5	72	38.9	
Others	6	8.0	22	20.0	28	15.1	
Don't know	1	1.3	3	2.7	4	2.2	
Total	75	100.0	110	100.0	185	100.0	
Frequency of such participation in past 12 mg	onths						
One	10	13.3	29	26.4	39	21.1	
2-3 times	27	36.0	46	41.8	73	39.5	
4-6 times	17	22.7	13	11.8	30	16.2	
7-12 times	9	12.0	7	6.4	16	8.6	
More than 12 times	7	9.3	6	5.5	13	7.0	
None	5	6.7	9	8.2	14	7.6	
Total	75	100.0	110	100.0	185	100.0	
Heard about Community Home Based Care P	rogram(CHBC)					
Yes	83	61.5	97	36.6	180	45.0	
No	52	38.5	168	63.4	220	55.0	
Total	135	100.0	265	100.0	400	100.0	
Have you heard about programs that provide							
that which gives information on ART		•	•	•			
Yes	67	49.6	105	39.6	172	43.0	
No	68	50.4	160	60.4	228	57.0	
Total	135	100.0	265	100.0	400	100.0	

^{*}Mutiple responses allowed.

Overall, 46.3 percent of the MSM had participated in at least one HIV awareness raising

program or similar event. Comparatively more MSWs (55.6%) than non-MSWs (41.5%) had taken part in these activities. Among them, many had participated in Condom Day celebrations (65.3% MSW and 47.3% non-MSW), AIDS Day (58.7% MSWs and 47.3% of non-MSWs), group discussion (40% MSW and 42.7% non-MSW) and street drama (48% MSW and 34.5% non-MSW). Others had participated in HIV/AIDS-related training and workshops.

Around two in three MSM reported taking part in events organized by the Blue Diamond Society (64.9%), two in five in events organized by Cruisedes (38.9%) and one in four had also been part of Parichaya Samaj activities (28.1%).

Two fifth of the MSM had taken part in such programs 2 to 3 times (39.5%), while one fifth had taken part just once in the past year (21.1%). Very few MSM (7.6%) had not taken part in any of such activities/programs in the past year (6.7% MSWs and 8.2% non-MSWs). (Table 3.41)

In addition to this, the MSM were also asked if they were aware of Community Home Based Care Program (CHBC) and Community Care Support and Treatment (CCST) program. Forty five percent of the MSM had heard about CHBC services provided to HIV-positive people, while 43 percent of them had heard of the CCST program.

3.10 Prevalence of Psychosocial factors

3.10.1 Housing Instability

Table 3.46 shows the current residence status of the MSM/TG. Almost eight out of 10 (78.8%) were living in rented apartment/room while only 2 out of 10 (18.2%) were living in own home. Furthermore the table also reveals that MSW/TG-SW, who lives in own home, were in lesser proportion (16.3%) than Non-MSW/TG non-SW (20%). Similarly the proportion of living in rented apartment/room of MSW/TG-SW is higher (82.2%) than the proportion of Non-MSW/TG-SW (77%).

Table 3.46: Housing Instability

Housing Instability	MSW/	TG-SW		MSW/ on-SW	MSM/TG		
,	N	%	N	%	N	%	
Living in own home	22	16.3	53	20.0	75	18.8	
Living in a residential hotel	1	.7	1	.4	2	.5	
Rented apartment/room	111	82.2	204	77.0	315	78.8	
Others	1	.7	7	2.6	8	2.0	
Total	135	100.0	265	100.0	400	100.0	

3.10.2 Mental Health Status of MSM/TG

The prevalence of distress and depression is 56.3 percent among MSM/TG who involved in sex work. Similarly, prevalence of distress and depression is also high (48.7%) among MSM/TG who are not involved in sex work. The overall prevalence of distress and depression is 51.2 percent.

Table 3.47: Depression Prevalence

TYPES	Frequency	Valid Percent
MSW		
Euthymic	59	43.7
Distressed	32	23.7
Depressed	44	32.6
Total	135	100
Non-MSW		
Euthymic	136	51.3
Distressed	60	22.6
Depressed	69	26.1
Total	265	100
MSM/TG		
Euthymic	195	48.8
Distressed	92	23
Depressed	113	28.2
Total	400	100

3.10.3 Acts of Violence Faced by MSM/TG

Table 3.48 shows various types of violence had been faced by MSM/TG in the past 12 months because of sexual behavior of the study participants. In most of the cases more MSW/TG-SW had faced such various types of violence than Non MSW/TG SW in the past 12 months.

Table 3.48: Personal experience of violence and discrimination in the past 12 months

Experience of violence and	MSW	//TG-SW		-MSW/ lon-SW	Т	otal
discrimination in the past 12 months	N	%	N	%	N	%
Ever beaten because of your sexual behavior	in the pa	st 12 month	s			
Yes	39	28.9	18	6.8	57	14.3
No	96	71.1	247	93.2	343	85.8
Total	135	100.0	265	100.0	400	100.0
In the past 12 months, were you forced to ha	ve sex wi	th someone	against y	our wishes?)	
Yes	28	20.7	24	9.1	52	13.0
No	107	79.3	241	90.9	348	87.0
Total	135	100.0	265	100.0	400	100.0
In the past 12 months, have you been cheate	d /threat	ened becaus	e of you	sexual beh	avior?	
Yes	57	42.2	32	12.1	89	22.3
No	78	57.8	233	87.9	311	77.8
Total	135	100.0	265	100.0	400	100.0
In the past 12 months, have you faced any kir	nd of disc	rimination i	n your jol	or every da	ay activiti	es
because of your sexual behavior?						
Yes	43	31.9	36	13.6	79	19.8
No	92	68.1	229	86.4	321	80.3
Total	135	100.0	265	100.0	400	100.0
Have you ever faced any problems because o	f your sex	cual identity	?			
Yes	58	43.0	45	17.0	103	25.8
No	77	57.0	220	83.0	297	74.3
Total	135	100.0	265	100.0	400	100.0

CHAPTER 4

TREND ANALYSIS OF KEY INDICATORS

This chapter seeks to analyze the change between the first, the second and the third rounds of IBBS among MSM on certain selected variables. It specifically deals with the socio-demographic characteristics, sexual behavior, condom use and HIV prevalence among the MSM in the Kathmandu Valley. Data from the second round of the survey have been analyzed using RDSAT software, while the first round and the third round data represent unadjusted proportions calculated through SPSS software. However its impact on comparability is expected to be minimal.

4.1 Prevalence of HIV and Syphilis Infection

HIV prevalence among the MSM has not changed significantly throughout the three rounds of the survey. As seen in Table 4.1, the first round of IBBS showed that the HIV prevalence among MSM was 3.9 percent, 3.3 percent in the second round which again increased to 3.8 percent in the third round. Unlike in 2007 when the prevalence was slightly higher among non-MSWs (3.4%) than among MSWs (2.9%), in 2004 and 2009 more MSWs had HIV than non-MSWs (4.8% MSWs and 3.6% non-MSWs in 2004, 5.2% MSWs and 3% non-MSWs in 2009).

Table 4.1: HIV and STI Prevalence among MSM by Surveyed Years

	Fi	irst roun	d	Secon	d round	(2007)	Thi	ird rour	ıd	Fo	urth ro	ound
HIV prevalence	;	SPSS (%))	RI	OS EPP (%)	S	PSS (%)			SPSS (%)
	MSW (N=83)	Non-	MSM (N=358)	MSW (N=135)	Non-	MSM (N=400)	MSW (N=135)	Non-	MSM (N=400)	MSW (N=135)	Non-	MSM (N=400)
HIV	4.8	3.6	3.9	2.9	3.4	3.3	5.2	3.0	3.8	6.8	2.9	3.8
Active Syphilis	2.4	1.5	1.7	1.5**	2.3**	2.4	3.0	0.8	1.5	2.2	0	0.8
Syphilis History	14.5	7.3	8.9	3.0**	2.6**	2.8	4.4	1.5	2.5	5.2	1.1	2.5
Anal-CT	20.5	1.5	5.9	11.6	2.6	3.6	11.1	1.9	5.0	3.0	3.0	3.0
Anal-NG	12.0	3.6	5.6	8.3	8.1	8.1	18.5	9.4	12.5	4.4	1.9	2.8
Urethral-CT	1.2	2.2	2.0	0.7**	1.1**	0.5	0.7	3.4	2.5			2.5
Urethral-NG	1.2	2.2	2.0	0.0**	0.8**	0.3	0.7	0.8	8.0			0.8
P-Value										.000	.000	.000

Note: Estimated population proportion (%) of the variables with double asterisks (**) did not meet the required numerator to be calculated with RDSAT and therefore represents unadjusted proportion

Overall, syphilis prevalence among MSM was 2.4 percent in second round compared to 1.7 percent in first round; and 1.5 percent in the third round. Syphilis history however had decreased from 8.9 percent in the first round to 2.8 percent in the second round and further to 2.5 percent in the third

round. On the other hand, the prevalence of anal NG increased from 5.6 percent in the first round in 2007, to 8.1 percent in the second round and further to 12.5 percent in the third round. The difference is statistically significant.

The anal CT infection rate had decreased from 5.9 percent in the first round to 3.6 percent in the second round but had again increased to 5 percent in the third round. The prevalence of anal CT and anal NG was noticeably higher among MSWs than non-MSWs in all the three rounds. Urethral NG and urethral CT among the MSM were two percent each in the first round, which decreased to 0.3 percent and 0.5 percent respectively in the second round, before increasing to 0.8 percent and 2.5 percent respectively in the third round.

4.2 Socio Demographic Characteristics of MSM and TG

The socio-demographic characteristics of the MSM indicate a similar pattern in all the rounds of the survey. More than half of the study participants (60.3% in 2004, 57.3% in 2007 and 56% in 2009) in all of the three rounds were made up of young respondents below 25 years of age. The median age of the MSM was 24 years in all three rounds of the survey.

Table 4.2: Socio-Demographic Characteristics of MSM by Surveyed Years

	First	round (2004)	Second	d round	(2007)	Third	round	(2009)	For	urth rou	ınd	
Socio-demographic	:	SPSS (%)	RE	RDS EPP (%)			SPSS (%)	9	SPSS (%)		
characteristics	MSW (N=83)	Non- MSW (N=275)	MSM (N=358)	MSW (N=135)	Non- MSW (N=265)	MSM (N=400)	MSW (N=135)	Non- MSW (N=265)	MSM (N=400)	MSW (N=135)	Non- MSW (N=265)	MSM (N=400)	
Below 25 years	59.0	60.7	60.3	56.1	55.7	57.3	51.1	58.5	56.0	48.1	50.2	49.5	
25 years and above	41.0	39.3	39.7	43.9	44.3	42.7	48.9	41.5	44.0	51.9	49.8	50.5	
Median age	24	24	24	24	24	24	24	24	24	25	24	25	
Mean/Std. Dev										26.09/	26.72/8.	26.51/8.	
										6.69	67	05	
Brahmin/Chhetri/	36.1	40.0	39.1	33.9	40.7	38.2	33.3	47.2	42.5			42.5	
Thakuri	30.1	40.0	33.1	33.3	40.7	36.2	33.3	47.2	42.3			42.5	
Newar	14.5	19.3	18.2	18.3	14.7	14.2	16.3	15.8	16.0				
Rai/Limbu/Gurung/	20.4	20.5	20.6	20.5	25.0	27.0	27.4	240	25.0			26.5	
Tamang /Magar	30.1	29.5	29.6	38.5	25.8	27.8	27.4	24.9	25.8			36.5	
Terai Caste	15.7	8.0	9.8	5.8	14.8	16.1	18.5	6.4	10.5				
Other hill	3.6	3.3	3.4	3.5	4.0	3.7	4.4	5.7	5.3				
caste/Muslim	3.0	5.5	5.4	5.5	4.0	3.7	4.4	5.7	5.5				

Similarly, the ethnic/caste background of the MSM remained mostly similar in all three rounds, with almost two-fifths of the MSM belonging to the Brahmin/Chetri/Thakuri caste groups (39.1% in 2004, 38.2% in 2007 and 42.5% in 2009). Around three in ten respondents in all the three rounds were represented by the Rai/Limbu/Gurung/Tamang/Magar castes (29.6% in 2004, 27.8% in 2007 and 25.8% in 2009). MSM belonging to the Terai castes increased from 9.8 percent in 2004 to 16.1 percent in 2007 and again went down to 10.5 percent in 2009.

4.3 Comprehensive Knowledge of HIV

Among the total study population six out of 10 (60%) had correct knowledge of ABC while 62.2% and 58.9% of MSW/TG-SW and Non-MSW/TG Non-SW had correct knowledge respectively (Table 4.3).

Furthermore, Almost six out of 10 (59.3%) of the study population had correct comprehensive knowledge while 58.5% and 60.7% of Non-MSW/TG Non-SW and MSW/TG-SW had correct comprehensive knowledge of HIV (Table 4.3).

Table 4.3: Comprehensive knowledge of HIV

Comprehensive knowledge	MSW/	TG-SW	Non-MSW/	TG Non-SW	MSM/TG		
of HIV	N	%	N	%	N	%	
Knowledge of all ABC							
Correct knowledge	84	62.2	156	58.9	240	60.0	
Incorrect	51	37.8	109	41.1	160	40.0	
Total	135	100.0	265	100.0	400	100.0	
Comprehensive knowledge of al	I 3 indicator	s(DEF)					
Correct knowledge	82	60.7	155	58.5	237	59.3	
Incorrect	53	39.3	110	41.5	163	40.8	
Total	135	100.0	265	100.0	400	100.0	

4.4 Condom Use Behavior with Different Sexual Partners

The trend of consistent condom use with different type of partners showed some changes over the three rounds of the survey. The proportion of MSM reporting consistent condom use with a non-paying male partner increased from 44.3 percent in 2004 to 70.1 percent in 2007, but again went down to 65.2 percent in 2009. This is still a significant increase since the first round. Likewise, reported consistent condom use with a paid male anal sex partner in the month preceding the survey increased from 50 percent in 2004 to 89.3 percent in 2007 but went down to 77 percent in 2009. However, this too is a significant increase since the first round.

The consistent use of condom with non-paying female sex partners, however improved all through the three rounds of the study (19.2% in 2004, 33% in 2007 and 40% in 2009); statistically too this is a highly significant change since the first round.

Table 4.4: Consistent Use of Condom with Different Sex Partners in the Past month by Surveyed Years

Consistent use of		round (2	2004)	Second	d round	(2007)	Third	round (2009)	Fourth round (2012)			
condom		SPSS (%)			OS EPP (%)	:	SPSS (%)))		
Condom	MSW	Non- MSW	MSM	MSW	Non- MSW	MSM	MSW	Non- MSW	MSM	MSW	Non- MSW	MSM	
With non-paying male anal sex partner	N=54	N=140	N=194	N=108	N=193	N=301	N=104	N=186	N=290	N=88	N=197	N=285	
Always	57.4	39.3	44.3	71.8	70.9	70.1	65.4	65.1	65.2	69.3	74.1	72.6	

Compietont was of		round (2	2004)	Secon	d round	(2007)	Third	round (2009)	Fourth	round	(2012)
Consistent use of condom		SPSS (%)	RI	DS EPP (%)		SPSS (%)	:	SPSS (%)
Condoni	MSW	Non- MSW	MSM	MSW	Non- MSW	MSM	MSW	Non- MSW	MSM	MSW	Non- MSW	MSM
Not always	42.6	60.7	55.7	28.2	29.1	29.9	34.6	34.9	34.8	30.7	25.9	27.4
With one time												
paying male	N=48			N=92			N=94			N=105		
anal sex partner												
Always	68.8	NA	NA	94.6**	NA	NA	85.1	NA	NA	83.8	NA	NA
Not always	31.2	NA	NA	5.4**	NA	NA	14.9	NA	NA	16.2	NA	NA
With regular												
paying male anal	N=36	NA	NA	N=101			N=99	NA	NA	N=98	NA	NA
sex partner												
Always	50.0	NA	NA	97.2	NA	NA	75.8	NA	NA	85.7	NA	NA
Not always	50.0	NA	NA	2.8	NA	NA	24.2	NA	NA	14.3	NA	NA
With paid												
male anal sex partner	N=12	N=34	N=46	N=21	N=35	N=56	N=9	N=65	N=74	N=30	N=52	N=82
Always	58.3	47.1	50.0	100.0**	82.9**	89.3	100.0	73.8	77.0	76.7	73.1	74.4
Not always	41.7	52.9	50.0	0.0**	17.1**	10.7	0.0	26.2	23.0	23.3	26.9	25.6
With non-paying												
female sex	N=15	N=63	N=78	N=28	N=86	N=114	N=20	N=70	N=90	N=21	N=64	N=85
Partner												
Always	40.0	14.3	19.2	69.2	33.8	33.0	50.0	37.1	40.0	38.1	34.4	35.3
Not always	60.0	85.7	80.8	30.8	66.2	67.0	50.0	62.9	60.0	61.9	65.6	64.7

NA- Not applicable for non-MSWs

Although the trend of consistent condom use among MSWs with one time paying and regular paying male anal sex partner has improved over the years, it did not show significant changes since the first round of the study. Consistent condom use with one-time paying male anal sex partners among MSWs was reported by 68.8 percent of them in the first round, 94.6 percent in the second round and 85.1 percent in the third round. Similarly, consistent condom use with regular paying male anal sex partners went up from 50 percent in 2004 to 97.2 percent in 2007, but again decreased to 75.8 percent in 2009.

4.5 Sexual Behavior

The sexual behavior of the MSM did not change much from the first round of the survey. The majority of the respondents had their first sexual contact before the age of 21 (90.8% in 2004 89% in 2007 and 94.3% in 2009).

Table 4.5: Sexual Behavior of MSM by Surveyed Years

Sexual behavior	First round (2004) SPSS (%)			Second round (2007) RDS EPP (%)			Third round (2009) SPSS (%)			Third round (2012) SPSS (%)		
	Age at first sexu	al inter	course									
Up to 16 years	79.5	52.0	58.4	62.8	48.2	51.5	82.2	50.6	61.3	73.3	54.7	61.0
17-20 years	14.5	37.8	32.4	31.0	39.7	37.5	17.0	41.1	33.0	21.5	38.1	32.5
21 and above	4.8	9.8	8.7	6.2	12.1	11.0	0.7	8.3	5.8	5.2	7.2	6.5
Can't remember	1.2	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean age at first sex	14.2	16.4	15.9	14.8	16.6	16.0	14.2	16.7	15.9	19.2	19.6	19.3
Median/Std Dev										15/3.0 8	16/2.8 4	16/2.9
First sex partne												
Male	21.7	58.5	50.0	68.5	31.5	36.1	89.6	43.8	59.3	81.5	69.1	73.3
Female	78.3	41.5	50.0	31.5	68.5	63.9	10.4	56.2	40.8	18.5	30.9	26.8
Ever had sex wi	th a mal	e in exc	hange fo	or mone	ey .							
Yes	14.5	12.7	13.1	20.0	15.5	17.4	6.7	25.3	19.0	100	19.6	46.8
No	85.5	87.3	86.9	80.0	84.5	82.6	93.3	74.7	81.0	0.0	80.4	53.2
Ever had sex wit	th a fem	ale in e	xchange	for mo	ney							
Yes	3.6	12.4	10.3	15.0	10.3	11.3	4.4	10.2	8.3			
No	96.4	87.6	89.7	85.0	89.7	88.7	95.6	89.8	91.8			
Sold anal sex to	male in	the pas	t month	1		1			1	1	1	1
Yes	71.1	NA	NA	82.2**	NA	NA	79.3	NA	NA	90.4	NA	NA

Note: Estimated population proportion (%) of the variables with double asterisks (**) did not meet the required numerator to be calculated with RDSAT and therefore represents unadjusted proportion NA- Not applicable for non-MSWs

Fifty percent of the MSM in 2004 had sex with a female partner, while 63.9 percent of respondents reported the same in 2007, followed by 40.8 percent in 2009.

Likewise, about the same proportion of the MSM in the first two rounds (10.3% in 2004 and 11.3% in 2007) had paid a female partner for sex in the past month, while in 2009 the proportion of MSM reporting so went down to 8.3 percent.

While in 2007, 82.2 percent of MSWs had sold sex to a male partner in the month preceding the survey compared to 71.1 percent of MSWs reporting so in 2004, in 2009 again a slightly lower proportion of MSWs (79.3 %) had sold sex in the month preceding the survey.

4.6 Drug Injecting Practices

The percentage of MSM injecting drugs nearly halved in second round (1.8%) since the first round (3.4%) and further decreased to 1.3 percent in the third round. As in the previous two rounds most MSM (98.8%) had not injected even once in the past year.

Table 4.6: Drug Injecting Practices of MSM by Surveyed Years

	First	round (2004)	Second	d round	(2007)	First	round (2	2009)	Fourth	round	(2012)
Drug injecting	SPSS (%)		RDS EPP (%)		SPSS (%)		SPSS (%)					
practice	MSW (N=83)	Non- MSW (N=275)	MSM (N=1358)	MSW (N=135)	Non- MSW (N=265)	MSM (N=400)	MSW (N=135)	Non- MSW (N=265)	MSM (N=400)	MSW (N=135)	Non- MSW (N=265)	MSM (N=400)
Yes	0.0	4.4	3.4	4.2	1.6	1.8	1.5	1.1	1.3	2.2	1.9	2.0
No	92.8	95.6	95.0	95.8	98.4	98.2	98.5	98.9	98.8	97.8	98.1	98.0
Don't remember	7.2	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CHAPTER 5

SUMMARY OF MAJOR FINDINGS AND POSSIBLE POLICY AND PROGRAMME IMPLICATIONS

5.1 Summary of Major Findings

General Findings

HIV prevalence among MSM in the Kathmandu Valley is 6.3 percent, while the overall prevalence rate of at least one STI is 10.8 percent (i.e. Percentage of respondents who have at least one of the following infections: HIV, active syphilis, anal and urethral neisseria gonorrhoea and anal and urethral chlamydia trachomatis).

The MSM group was mostly young, with 72.6 percent being below the age of 30. Overall, 24.5 percent were living with a regular sex partner at the time of the survey. Of these 17.1 percent were living with a male partner while 86.5 percent with a female partner.

The predominant sex practice among MSM was anal sex, followed by oral sex. The majority of them (96.8%) had practiced anal sex in the past month while 91 percent had oral as well as anal sex in the past month. All of the Survey participants had sexual contact with a male in the past year while 26.8 percent of them had sex with a female partner too.

The data reveals that the consistent condom use with different partners was high among MSMs. However, MSM group tends to not use condoms consistently with their regular female partners. The past month's sexual encounters showed that overall *consistent condom use* was low with non-paying female sex partners (35.3%).

Ninety-two percent of MSM could get condoms whenever necessary. An equal percentage of MSMs also had heard of lubricants that are made specially to be used with condoms. Among them, 63.4 percent had used such lubricants consistently during anal sex in the month preceding the survey.

Twenty percent of the MSM group had experienced condom breakage during sex in the past month. Two-third (68%) of them knew that such breakage had been caused due to the improper use of condoms.

Overall, 13.5 percent of MSM could not correctly name any symptom of STIs in men. On the other hand, 20.3 percent had experienced at least one symptom of STI in the past 12 months.

While 60 percent of MSM knew about 'ABC', an equal percentage of MSM (59.3%) were aware of all of 'DEF' (A: abstinence, B: being faithful to one partner, C: consistent condom use prevent HIV transmission, D: a healthy looking person can be infected with HIV, E: a person cannot get HIV from a mosquito bite and F: HIV is not transmitted while sharing meal with an HIV infected person).

Around 73 percent of MSM knew about a confidential HIV testing facility in their community. However, only 62.5 percent had ever taken an HIV test. Among them, 68 percent had taken the test within the past year.

Around 27 percent of MSM perceived themselves to be at *medium or high risk* of contracting HIV, 72 percent saw little or no such risk for themselves.

MSMs are also subjected to discrimination and physical violence because of their sexual orientation. Overall, one in seven of the MSM had been beaten up (14.3%), an equal percentage had been forced to have sex (13%), one in five had been threatened (22.3%) and an equal proportion had faced discrimination at work (19.8%) in the past year. In addition one in four (25.8%) had faced different problems because of their sexual identity.

78 percent of MSM had met peer/outreach educators while 54.5 percent had visited a drop-in center (DIC), 46.3 percent had participated in at least one HIV/STI awareness program/community event and 44.8 had visited a VCT center at least once in the past year. A relatively smaller proportion of them (16.3%) had visited an STI clinic in the year preceding the survey. MSM had mostly participated or visited programs run by Cruisedes, the Blue Diamond Society and Parichaya Samaj.

Group Specific Findings on MSWs and Non-MSWs

MSWs had a slightly higher prevalence of HIV than non-MSWs, as 6.8 percent of 135 MSWs and 2.9 percent of 265 non-MSWs tested HIV-positive. The prevalence of at least one STI, i.e., HIV, current syphilis, anal CT and NG and urethral CT and NG was also higher (31.9%) among MSWs than non-MSWs (6.8%).

Around 28 percent of MSM were currently married. Among them 20 percent MSWs were married to male partners, 16 percent of non-MSWs had been married to males.

While 1.9 percent of non-MSWs had never been to a formal school but could read and write, twice as many MSWs (10.4%) reported so.

A relatively larger proportion of MSWs (18.5%) represented different Terai castes compared to non-MSWs (6.4%).

MSWs were found to engage in sexual encounters at an earlier age than non-MSWs, as 82.2 percent of MSWs had their first sexual contact at the age of between 10-16 years compared to 54.7 percent of non-MSWs reporting so. At the same time, a relatively higher proportion of MSWs (81.5%) had their first sexual experience with a male partner than non-MSWs (69.1%).

More non-MSWs (43.8%) than MSWs (26.7%) had sexual contact with female partners in the past year. At the same time, non-MSWs had mostly performed the role of receptive partner (45.7%) while MSWs had mostly performed the insertive role (52.6%) during anal sex in the month preceding the survey.

Overall *consistent condom use* was the highest with paid male anal sex partners (100%) among MSWs and with paid female sex partners (85.2%) among non-MSWs in the month preceding the survey.

More MSWs (94.3%) than non-MSWs (89.1%) had heard of branded lubricants. Likewise, a higher percentage of MSWs (66.9%) than non-MSWs (60.7%) had used lubricants with condoms in each anal sex in the past month.

A higher proportion of non-MSWs (15.1%) than MSWs (10.4%) were unaware of any symptoms of male STIs. Among the different symptoms of STIs, slightly higher proportion of MSWs (21.5%) than non-MSWs (19.6%) had experienced at least one symptom of STI in the past year. Similarly, a relatively larger proportion of MSWs (11.9%) than non-MSWs (4.5%) had experienced anal ulcers/sores in the past year. On the other hand, more non-MSWs (15.1%) than MSWs (10.4%) have had genital ulcers/sores in the past year.

More non-MSWs (32.7%) than MSWs (20%) had not sought treatment for the symptoms of STI/S experienced by them in the past year. A relatively higher proportion of MSWs than non-MSWs had sought treatment from Cruisedes (17.1% MSWs and 7.3% non-MSWs), Parichaya Samaj (14.3% MSWs and 3.6% non- MSWs), and private doctor/clinician (11.4% MSWs and 5.5% non-MSWs) while a larger proportion of non-MSWs than MSWs had been to a pharmacy (18.2% non- MSWs and none of the MSWs (0%)) and had used medicine available at home for treatment (14.5% non-MSWs and 5.7% MSWs).

While 84.4 percent of MSWs knew about the existence of a confidential HIV testing facility in their community, 66.8 percentage of non-MSWs knew about it. Among them more MSWs (78.5%) than non-MSWs (54.3%) had ever taken an HIV test. More MSWs (36.3%) than non-MSWs (23%) also perceived them to be at some or high risk of contracting HIV.

More MSWs than non-MSWs had been subjected to physical/sexual violence such as beating (28.9% MSWs and 6.8% non-MSWs), forced sex (20.7% MSWs and 9.1% non-SWs), blackmailing (42.2% MSWs and 12.1% non-MSWs) and discrimination at their job or in daily life (31.9% MSWs and 13.6% non-MSWs) in the past one year and had faced problems because of sexual identity (43% MSWs and 17% non-MSWs).

More MSWs than non-MSWs had been exposed to ongoing HIV/AIDS awareness programs and activities including exposure to PEs/OEs/CMs/CEs, visit to DICs, STI clinics, VCT centers or participation in any program/event.

5.2 Recommendations

Based on the findings of this Survey, some specific recommendations are as follows:

The data revealed that the prevalence of HIV and STI has increased over the years, suggesting unsafe/unprotected sexual practices among MSM. Around 27 percent of MSM perceived themselves to be at *medium or high risk* of contracting HIV because of their risky behaviors. Consistent condom use was relatively low with non-paying female partners while condom use was inconsistent with other partners too. Comprehensive program catering to MSM and their sexual networks (that consist of female partners too), should be designed. Advocacy, behavioral change programs, and health promotion intervention should be further scaled up. The contents of the messages should be improved further and disseminated widely.

Data revealed that a considerable proportion of MSM have their first sexual debut at a very young age (73.3% MSWs and 54.7% non-MSWs were less than 16 at time of their first sexual contact). The sexual networks of MSM population are highly diverse which are not limited to male partners only. They have different types of partners and possess multiple partners as well. This diverse network poses a big challenge in program interventions including STI, VCT, and care and treatment program. It will not be easy to embrace the diverse groups of MSM network in the effective prevention and care interventions among MSM population. Therefore, program coverage should be increased and specific program activities that target adolescents and youths, school children and college students should be designed to impart HIV/AIDS awareness and sex education in an effective way.

One in four MSM were not aware of a confidential HIV testing facility being available in the valley. At the same time, 37.5 percent of the respondents had never tested themselves for HIV so far. Increasing awareness about confidential HIV testing facilities in the community and increasing HIV test uptake is of crucial importance. Strengthen and expand client-friendly HIV counseling and testing facilities and STI treatment services to cover more of the MSM population and made aware of locations and availability of such services to them.

Peer/outreach educators are good contact points to disseminate the necessary information related to STI and HIV/AIDS, safe sex and other related topics and distribute IEC materials to the target population. 71 percent of the respondents had met them at least once in the past year. One-to-one education for behavioral change and safe sexual practices through outreach education programs should be continued and expanded to cover more of the target population. Ensure adequate training to local NGOs staff to increase access to more of target population in such facilities.

Some MSM were subjected to physical violence such as beating and forced sex, threatening, and discrimination on the basis of their sexuality. Necessary information related to sexuality and to the rights of sexual minorities should be provided at a larger scale through awareness campaigns such as street drama and radio and television programs to change the negative attitude of the society. Emphasis should be put on the availability of health services to MSM who are subjected to sexual violence.

The group-specific findings suggest that a relatively smaller proportion of non-MSWs than MSWs have participated in different programs/services related to the MSM community and HIV/AIDS. New strategies need to be designed to cover unexposed MSMs and their clients.

Utilize different mediums of communications such as hotlines, websites, PEs/OEs, print media, radio/television and social media to reach these groups.

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ANNEXES

Annex 1: Indicators for monitoring and evaluation framework for HIV

Prevention 1: HIV related risk and transmission among MSM	Results (%)	Indicators
Impact/Outcome indicators		
Percentage of MSM/TG who are HIV infected	3.8	
Percentage of Non-MSWs/TG non-SWs who are HIV infected	2.9	
Percentage of MSWs who are HIV infected	6.8	
Percentage of condom use by total MSM/TG at last anal sex	86.9	
Percentage of condom use by total MSWs at last anal sex	90.4	
Percentage of condom use by total non-MSWs at last anal sex	85.1	
Percentage of MSM reporting consistent condom use with their clients over the		
past 12 months	86.7	
Percentage of MSM who both correctly identify ways of preventing the sexual	59.3	
transmission of HIV and who reject major misconceptions about HIV transmission		
Output/coverage indicators		·
Percentage of MSM reached with targeted HIV prevention service programs (BCC		
with OE/PE or DIC or STI Clinics or VCT or community events / trainings or drug	54.3	
treatment or rehabilitation)		
Percentage of MSM reached with HIV prevention programs (Knows where to		
receive HIV test and have received condoms)	72.8	
Percentage of MSM who received an HIV test in the last 12 months and who know		
their results	97.6	

Annex 2: Survey Questionnaire

Government of Nepal Ministry of Health and Population (MoHP) National Center for AIDS and STD Control (NCASC) Integrated Biological and Behavioral Surveillance Survey (IBBS) among Men who have Sex with Men/Transgender people in Kathmandu Valley - 2012

(MSM Questionnaire)

gonorrhoeae (GC). If it is determined that you have any STI symptoms, we will provide treatment free of charge. The information given by you will be strictly treated as confidential. Nobody will know whatever we talk about because your name will not be mentioned on this form and collected samples. All the mentioned information will be used only for the study purpose. This survey will take about 40 to 60 minutes. It depends on your wish to participate in this survey or not. You do not have to answer those questions that you do not want to answer, and you may end this interview at any time you want to. But I hope you will						
participate in this survey and make it a success by providing correct answers to all the questions. Would you be willing to participate?						
1. Yes 2. No						
Signature of the interviewer: Date:/2069						

once within the past 12 months prior to the date of survey

Male Sex Workers (MSWs)/ TG who involved in sex work: "regardless of their identity or label if one male has had sold anal and/or oral sex to another male in exchange for money or any other commodities in the 12 months preceding the study".

Code Respondent: (circle)

MSW: 1	Non-MSW: 2
Seed: 1. Yes	2. No
IDENTIFICATION NUMBER:	(Write "0" for seed)
Coupon number of Respondent	(If respondent is seed write "0")
Coupon number given: 1)	2)
Ask the respondent to mention him in the past one year	number of MSM/metis who is/are in his/her contact or are known to
Did the interviewee abandon th 1. Yes (Precise the number of the number	e interview? ne last question completed: Q) 2. No
Name of Interviewer: Date of Interview:/	Code No. of Interviewer:
Checked by the supervisor: Sign	ature: / 2069
001. Has someone interviewed y	ou from Intrepid Nepal PVT Ltd with a questionnaire in last few weeks?
1. Yes 2. N When? Days ago (End I	(Continue Interview)
Respondents ID No.	
Respondent referred by coupon no	
Interviews Starting Time:	hrsmin.
Interviews Completion Time:	hrsmin.

1.0 PERSONAL INFORMATION

Q. N.	Questions	Coding Categories	Skip to
101	How old are you?		
	•		
		Age	
		(Write the completed years)	
102	What is your caste?	Ethnicity/Caste	
		(Specify)	
		Code No	
103	Do you follow any religion?	Yes1	
		No2 ·	→ 104
103.1	What is your religion?	Hindu1	
		Buddhist2	
		Muslim3	
	(Only one response)	Christian 4	
	. , , ,	Others (Specify) 96	
		Don't remember/know98	
		No Response99	
104	What is your educational status?		
104	What is your Educational Status:	Illiterate0	
	Circle 101 if illiterate 14.01 for the literate with out	Literate19	
	(Circle '0' if illiterate, '19' for the literate without	Grade	
	attending the school, and write exact number of		
	the passed grade)	(Write the grade completed)	
105	What kind of person do you get attracted to?	Dohori 1	
		Ta 2	
	(Multiple answer possible)	Pinky ta 3	
		Man/mard4	
		Homosexual5	
		Gay 6	
		Meta/meti7	
		Pinky meta8	
		Woman9	
		Hijara10	
		Others (Specify) 96	
		Don't remember/know98	
		No Response99	
106	How would you identify yourself on the basis of	Dohori 1	
100	your sexual orientation/	Ta 2	
	behavior?	Pinky ta	
	Deliavioi :		
		Man/mard4	
	(Outrous susual)	homosexual5	
	(Only one answer)	Gay6	
		Meta/meti7	
		Pinky meta8	
		Woman9	
		Hijara10	
		Others (Specify) 96	
		Don't remember/know 98	
		No Response99	
106.1	How do you identify yourself on the basis of	Tesro Lingi1	
	gender	Man2	
		Woman3	
	(Only one answer)	Don't Know98	
	,,	No Response 99	

Q. N.	Questions	Coding Categories	Skip to
106.2	Which of the following best describes your current	Homeless on the street1	
	living situation? (Select only one option)	Living in own home2	→ 107
		Living in a residential hotel3	
		Rented apartment/room4	
106.2	How often your landland or male partner forced	Other (specify)96	
106.3	How often your landlord or male partner forced you to vacate the rented room or apartment in the	Never1 Once/twice2	
	last 5 years?	Three to five times3	
	last 3 years:	More than five times4	
		Do not remember98	
107	Are you currently married?	Yes1	
'	, ,	No2	 107.2
		No response99	\ \
107.1	Who is your married sex partner?	Male1-	► 108
		Female2	
	(Multiple answer possible)	Others (Specify) 96	
107.2	Does your family force you for marriage with	Yes1	
	female?	No2	
108	Are you currently living with a regular sexual	Yes1	
	partner?	No2	լ
		No response99	ر 110
109	Is your regular sexual partner who you live with	Male 1	
	male or female?	Wife2	
	(100 L	Other female3	
	(If female, confirm if she is wife or other female	No response99	
110	partner) In the last 12 months, have you been away from	Yes1	
110	your home for more than one-month altogether?	No	
	your name for more than one month altogether.	Don't remember/know98	
		No response99	
111	What is your main profession?	Student 1	
111	What is your main profession:	Driver	
	(Only one response)	Police	
	(com, one capana)	Military4	
		Other civil servant5	
		Businessman 6	
		Private company staff7	
		Unemployed8	
		Laborer/wage labor9	
		Sex worker	
		Others (Specify)96 Don't know98	
		No response99	
112	What was your total income in last month?		
	,		
	(Write total income from one or more than one	NRs	
	professions)		115
		If response is "00" go to Q.201	
		Don't remember/don't know 98	_
		No response 99	7
113	How did you earn that money?	Sex work	
		Money from family	
		Salaried job	
		Own business4	

Q. N.	Questions	Coding Categories	Skip to
	(Record all. If the respondents says "work" or "my	Wage labor5	
	job" probe for whether formal salaried job or	Other work (Specify) 96	_
	informal sector)	Don't remember/know98	├ 115
		No response99	ا تا ر
	(Multiple answer possible)		
114	How many people are you supporting with your		
	income now?	Number of people	
		Don't remember/don't know98	
		No response Own business99	
115	Does your family force you to live outside of home	Yes1	
	because of your sexual orientation/ behaviours?	No2	
		No response99	
116	Is there at least someone in your immediate family	Yes1	
	that you can talk openly with about your	No2	
	homosexual/bisexual behaviour?	No response99	

2.0 INFORMATION ON SEXUAL BEHAVIOR

Q. N.	Questions	Coding Categories	Skip to
201	At what age did you first have sexual intercourse? (I mean any type of anal and or vaginal sex even if you were forced to have it)	Age in years	≨ top interview
202	Was your first sexual partner male or female?	No response 99 Male/meti 1 Female 2 Don't know 98 No response 99	
202.1	Was your have first sex it was mutual or forcefully (vaginal, anal or oral sex)	Forcefully	
203	Have you had vaginal, anal or oral sex with a female in the last 12 months? (Check with answer in Q No. 109)	Yes 1 No 2 Don't remember 98 No response 99	
204	Have you had anal/oral sex with a male/meti in the last 12 months?	Yes 1 No 2- Don't remember 98 No response 99	→ Stop interview
205	Have you ever had sex with a male/meti in exchange for money or any other commodities?	Yes 1 No 2 Don't remember 98 No response 99	→301
206	In the last 12 months have had sex with a male/meti for money?	Yes 1 No 2 Don't remember 98 No response 99	
207	How old were you when you had sex with a male/meti for money for the first time? (In Completed years)	Year's old	

Questions	Coding Categories	Skip to
When did you last have sex with a male/meti for money?	Days	
(I mean any kind of sex, including oral sex, etc.)	Weeks	
	No response99	
Have you had anal (receptive, 72nsertive or both)	Yes1	
sexual intercourse in the last six months with a	No2	
male partner?	Don't remember 98	
	No response99	
If yes in Q209	Yes1	
Did you or your partner use a condom the last	No2	
time you had anal sex (in the last six months)?	Don't remember 98	
	No response 99	
) 	When did you last have sex with a male/meti for money? (I mean any kind of sex, including oral sex, etc.) Have you had anal (receptive, 72nsertive or both) sexual intercourse in the last six months with a male partner? If yes in Q209 Did you or your partner use a condom the last time you had anal sex (in the last six months)?	When did you last have sex with a male/meti for money? (I mean any kind of sex, including oral sex, etc.) Weeks Months Don't remember 98 No response 99 Have you had anal (receptive, 72nsertive or both) sexual intercourse in the last six months with a male partner? No 2 Don't remember 98 No response 99 If yes in Q209 Did you or your partner use a condom the last time you had anal sex (in the last six months)? Days Weeks Days Weeks Don't remember 98 No response 99 Yes 1 No 2 Don't remember 98 No 99

3.0 USE OF CONDOM WITH SEX PARTNERS

CONDOM USE WITH NON-PAYING MALE SEX PARTNER

Non-paying male sex partner: Male partners with whom you may have had sex without paying any cash or without exchanging gifts. When answering these questions please think about your "meti" or "ta" as well as other male partners.

Q. N.	Questions	Coding Categories	Skip to
301	In the past one month, how many male sex partners have you had sex with where no payment was involved?	Number — No one 0 Don't remember 98 No response 99	306
302	With how many of those partners did you have anal sex?	Number 0- No one 98 No response 99	→ 304
303	The last time you had anal sex with a non-paying male sex partner, did you use a condom?	Always 1 Most of the time 2 Sometimes 3 Never 4 Don't remember 98 No response 99	
304	How often did you use condom while you had anal sex with non-paying male sex partner in the last month?	Yes 1 No 2 Don't remember 98 No response 99	
305	Where did you meet your last non-paying male sex partner?	Park 1 Discothèque 2 Restaurant 3 Dance Restaurant 4 Massage Parlor 5 Street 5 Pub/Café 7 Temple 8	

Q. N.	Questions	Coding Categories	Skip to
		Bus Station 9	
		Public Toilets 10	
		Cinema Hall11	
		Near Army barracks 12	
		Internet café13	
		Sauna/Steam Bath14	
		Swimming Pools/sports	
		center 15	
		Home16	
		Bhatti Pasal17	
		Forest 18	
		Saloon19	
		Shopping center20	
		Others (Specify) 96	
		Don't remember98	

CONDOM USE WITH NON-PAYING FEMALE SEX PARTNER

Non-paying female sex partner: Female partners with whom you may have had sex without paying in cash or without exchanging any gifts.

If no in Q. 203 go to Q.N. 309

Q. N.	Questions	Coding Categories	Skip to
306	In the past one month, how many female sex partners have you had vaginal, anal or oral sex with where no payment was involved? (Including your wife if married as well as other women)	Number	309
307	The last time you had vaginal, anal or oral sex with a non-paying female sex partner, did you use a condom?	Yes 1 No 2 Don't remember 98 No response 99	
308	How often did you use condom while you had vaginal, oral or anal sex with non-paying female sex partner in the last month?	Always 1 Most of the time 2 Sometimes 3 Never 4 Don't remember 98 No response 99	

CONDOM USE WITH ONE-TIME MALE CLIENT

One-time male clients: Men who paid or gave other commodities to you for sex as client and you have never had sex with him before

Q. N.	Questions	Coding Categories	Skip to
309	In the past one month, how many one-time male clients have you had sex with you?	Number0	315
	(Include oral, anal sex partner)	Don't remember	
310	How many one-time male clients did you have anal sex with in the last month?	Number	

Q. N.	Questions	Coding Categories	Skip to
		No-one0	→ 314
		Don't remember98	
		No response99	
311	Did you ask them to use condoms?	All of them1	
		Some of them2	
		None of them3	
		Don't remember98	
		No response99	
312	The last time you had anal sex with a one-time	Yes1	
	male client, did he use a condom?	No2	
		Don't remember98	
		No response99	
313	How often did you use condom while you have	Always1	
	had anal sex with a one-time male client in the	Most of the time2	
	last month?	Sometimes3	
		Never4	
		Don't remember98	
		No response99	
314	How many one-time male clients did you have		
	oral sex with in the last month?	Number	
		No-one	
		Don't remember98	
		No response99	

CONDOM USE WITH REGULAR MALE CLIENTS

Regular male clients: Men who paid or gave other commodities to you for sex as client and you have had sex with him more than once

Q. N.	Questions	Coding Categories	Skip to
315	In the past one month, how many regular male/meti clients have you had sex with you?	Number O Don't remember	320
316	How many regular male/meti clients did you have anal sex with in the last month?	Number 0 - No on 98 No response 99	→ 319
317	The last time you had anal sex with a regular male/meti client, did you use a condom?	Yes 1 No 2 Don't remember 98 No response 99	
318	How often did you use condom while you have had anal sex with regular male/meti client in the last month?	Always 1 Most of the time 2 Sometimes 3 Never 4 Don't remember 98 No response 99	
319	How many regular male/meti clients did you have oral sex with in the last month?	Number	

Q. N.	Questions	Coding Categories	Skip to
320	In the past month, have you brought any	Yes1	
	male/meti client to orgasm without	No2	
	penetration?	Don't remember98	
	(Any male client: Regular or one-time)	No response99	
321	How much did your last male/meti client pay	Rs.	
	you?	Don't remember98	
	(Decules as an atime alient)	No response99	
222	(Regular or one time client)	•	
322	Where did you meet your last male/meti client?	Park	
		Discotheque	
	(Pagular or ano timo aliant)	Restaurant3 Dance Restaurant4	
	(Regular or one time client)	Massage Parlor5	
		Street5	
		Pub/Café7	
		Temple8	
		Bus Station9	
		Public Toilets10	
		Cinema Hall11	
		Near Army barracks12	
		Internet /café13	
		Sauna/Steam Bath14	
		Swimming Pools15	
		Home16	
		Bhatti Pasal17	
		Forest18	
		Saloon19	
		Shopping center20	
		Others (Specify)96	
		Don't remember98	
222	\A/l+ +l	No response99	
323	What are the most common occupations	Student1 Police/Military2	
	among your clients?	Civil servant3	
	(Do not read options. Probe for up to three)	Businessman4	
	(20 not read options, riobe for up to timee)	Laborer5	
		Unemployed6	
		Driver7	
		Private office staff8	
		Others (Specify)96	
		Don't know98	
		No response 99	

CONDOM USE WITH FEMALE CLIENTS

Female clients: women who paid you for sexual services

Q. N.	Questions	Coding Categories	Skip to
324	In the past one-month, how many women have paid or gave other commodities to you for sexual services?	Number 0 No one 0 Don't remember 98 No response 99	327
325	The last time you had vaginal or anal sex with a	Yes1	
	female client, did you use a condom?	No2	

Q. N.	Questions	Coding Categories	Skip to
		Don't remember98 No response99	
326	How often did you use condom while you have had vaginal or anal sex with female clients in the las month?	Always 1 Most of the time 2 Sometimes 3 Never 4 Don't remember 98 No response 99	

CONDOM USE WITH PAID MALE/ METI SEX PARTNER

Paying male sex partner: Men to whom you have paid in cash or gave some commodities for sex

Q. N.	Questions	Coding Categories Skip to)
327	In the past one month, how many different men/meti did you give money or any other commodities so that they would have sex with you?	Number	
328	How many male/meti partners did you pay to have anal sex with in the last month?	Number	
329	The last time you had anal sex with a paid male sex partner, did you use a condom?	Yes 1 No 2 Don't remember 98 No response 99	
330	How often did you use condom while you have had anal sex with paying male sex partners in the last month?	Always 1 Most of the time 2 Sometimes 3 Never 4 Don't remember 98 No response 99	
330.1	If a client (regular or casual) refuses to use a condom, what do you usually do?	Refuses to have sex with the client	
330.2	How often do you have sex with regular and casual clients without condoms to make more money within 6 months?	Always	

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CONDOM USE WITH PAID FEMALE SEX PARTNER (FEMALE SEX WORKERS)

Paid female sex partner: Women to whom you have paid in cash or gave some gifts for sex

Q. N.	Questions	Coding Categories	Skip to
331	In the past one-month, how many female sex		
331	workers did you pay or give other commodities	Number	
	to for sexual contact?	No one0	
	to for sexual contact.	Don't remember98	334
		No response99	334
332	The last time you had vaginal or anal sex with a	Yes1	
	paid female sex partner, did you use a	No2	
	condom?	Don't remember98	
		No response99	
333	How often did you use condom while you have	Always 1	
333	had vaginal or anal sex with paying female sex	Most of the time2	
	partners in the last month?	Sometimes	
	partiters in the last month.	Never4	
		Don't remember98	
		No response99	
334.	With whom did you have the first sexual	Non-paying male partner1	
	intercourse (vaginal or anal)?	Non paying female partner2	
		Male client3	
		Female client4	
	(Check with answer in Q 202)	Paid male sex worker5	
	(Paid female sex worker (FSW)6	
		Don't Know98	
		No response99	
335.	Did you use a condom in the first sexual	Yes1	
	intercourse?	No2	
		Don't remember/don't know98	
		No response99	
336	With whom did you have the last sexual	Non-paying male partner1	
	intercourse (anal or vaginal)?	Non paying female partner2	
		Male client3	
		Female client4	
		Paid male sex worker5	
		Paid female sex worker (FSW)6	
		Don't Know98	
		No response99	
337	Did you use a condom in the last sexual	Yes1	
	intercourse (anal or vaginal)?	No2	
		Don't remember/don't know98	
		No response99	
338	Who was your last male anal sexual partner?	Non-paying male partner1	
		Male client2	
	(Check the answer given in Q 336)	Paid male sex worker3	
		No anal sexual intercourse in	
		last 12 months4 —	→ 401
		Don't Know98	
		No response99	
339	Did you use a condom in the last anal sexual	Yes1	
	intercourse with male sex partner?	No2	
	·	Don't remember/don't know98	
		No response99	
340	How many different sex partners you had in		
	the last six months (count all types of partners:	Number	
		•	J

Q. N.	Questions	Coding Categories	Skip to
	paid, not-paid, regular, one time among all	No-one0	
	male, female and tesro lingis also)	Don't remember98	
		No response99	

4.0 SEXUAL PRACTICES AND VIOLENCE

Q. N.	Questions	Coding Categories	Skip to
401	Among all your male sexual partners with	All receptive1	Skip to
401		· ·	
	whom you had oral sex last month, were your	All insertive	
	partners (not you):	Mostly receptive	
		Mostly insertive4	
		Equally receptive and insertive5	
		Didn't have oral sex in the last	
		month6	
		Don't remember98	
		No response99	
402	I am still talking about oral sex. Did you use a	Yes1	
	condom with your last male partner with	No2	
	whom you had oral sex?	Don't remember/don't know98	
		No response99	
403	Among all your male sexual partners with	All receptive1	
	whom you had also anal sex last month, were	All insertive2	
	your partners (not you):	Mostly receptive3	
		Mostly insertive4	
		Equally receptive and insertive5	
		Didn't have anal sex in the last	
		month6	
		Don't remember98	
		No response99	
404	In the past 12 months, were you ever beaten	Yes1	
	because of your sexual behavior?	No2	
		Don't remember/don't know98	≻ 406
		No response99	J
405	Who was/were the people who beat you?	Police 1	
		Military 2	
		Client 3	
	(Multiple answers possible don't read	Regular Partner 4	
	possible answer)	Sexual Partner5	
		Hooligans group6	
		Others (Specify)96	
		Don't remember98	
		No response99	
406	In the past 12 months, were you forced to	Yes1	
	have sex with someone against your wishes?	No2 -	4 08
		Don't remember/don't know98	
		No response99	
407	Who were these people who forced you to	Police1	
	have sex against your will?	Military2	
		Client3	
	(Multiple answer possible)	Regular Partner4	
		Sexual Partner5	
		Hooligans group6	
		Others (Specify)96	
		Don't remember98	
		No response99	

		In the past 12 months, have you been cheated /threatened because of your sexual behavior?								
	/thre	/tilleateried because of your sexual behavior!					No2 Don't remember98			
409				•						
		•	ation in your		•					
			e of your sex			Don'	t remember		98	
·		No re	esponse		99					
409.1			red from the			Yes		1		
		-	to your sexu	ual orientation	on/					
	beha	avior?				_				
				I I						
410		•	ced any prob	nems becaus	se or					
410	your	sexual ident	.ity?			_				
						_				
410.1	Have	you ever ex	perienced di	scrimination	ı. been		•			
110.1			made to feel							
		al orientatio			,		0		,	
Respon	se/	At school	Getting	At work	Gett	ing	Getting	Getting	On a	From the
frequer	ncy		hired or		hous	ing	medical	service in	street or	police/
			getting a		(rent	ting	care	a store or	in a	other
			job		or			restaura	public	security
					buyi	ng)		nt	setting	personne
		V 1	V 1	V 1	V	4	V 1	V 1	(park)	1 V 1
Dosnon		Yes= 1 No= 2	Yes= 1 No= 2	Yes= 1 No= 2	Yes=		Yes= 1 No= 2	Yes= 1 No= 2	Yes= 1 No= 2	Yes= 1 No= 2
Respon	ise	Never= 3	No= 2 Never= 3	No= 2 Never= 3	No= 2 Never= 3		Never= 3	No= 2 Never= 3	No= 2 Never= 3	No= 2 Never= 3
		INEVEL - 3	INEVEL - 3	INEVEL - 3	INCV	-1 - 3	Mevel - 3	Mevel - 3	INEVEL - 3	Mevel - 3
		Never= 0	Never= 0	Never= 0	Neve	er= 0	Never= 0	Never= 0	Never= 0	Never= 0
QN 410).2.	Once= 2	Once= 1	Once= 1	Once	= 1	Once= 1	Once= 1	Once= 1	Once= 1
If yes, F	low	2/3	2/3	2/3	2/3		2/3	2/3	2/3	2/3
many times		times= 3	times= 2	times= 2	time	s= 2	times= 2	times= 2	times= 2	times= 2
did this		4≥ times=	4≥ times=	4≥	4≥ ti	mes=	4≥	4≥ times=	4≥ times=	4≥ times=
happen	1?	4	3	times=3	3		times=3	3	3	3
QN 410.3		Accept it/k Do someth	are treated u eep to self= (ing/keep to s ing/talk to of	0 self= 1	use of	your s	exual orienta	ation, what is	your reaction	on?

411. Below is a list of the ways you might have fe	elt or behaved. I	Please tell me h	ow often you have	felt this way			
during the past week.							
SCORING : zero for answers in the first column,	Rarely on	Some or a	Occasionally or	Most or all			
1 for answers in the second column, 2 for	none of the	little of the	moderate of	the time (5-			
answers in the third column, 3 for answers in	time (less	time (1-2	the time (3-4	7 days)			
the fourth column.	than 1 day)	days)	days)				
I1. I was bothered by things that usually don't							
bother me							
I2. I did not feel like eating; my appetite was							
poor.							
13. I felt that I could not shake off the blues							
even with help from my family or friends.							
14. I felt I was just as good as other people							
I5. I had trouble keeping my mind on what I							
was doing.							

I6. I felt depressed		
17. I felt that everything I did was an effort.		
18. I felt hopeful about the future.		
19. I thought my life had been a failure.		
I10. I felt fearful.		
I11. My sleep was restless		
I12. I was happy		
I13. I talked less than usual		
I14. I felt lonely.		
I15. People were unfriendly		
I16. I enjoyed life.		
I17. I had crying spells.		
I18. I felt sad.		
I19. I felt that people dislike me.		
I20. I could not get "going."		

Q. N.	Questions	Coding Categories	Skip to
413	Did you ever feel so low you thought a lot about committing suicide?	Yes 1 No 2	59 1
414	How often did you have any thoughts about ending your own life in last 12 months?	Many times	
414.1	Have you ever made a plan to commit suicide?	Yes	
415	Did you ever attempt suicide?	Yes	

5.0 ACCESSIBILITY OF CONDOM AND LUBRICANT

Q. N.	Questions	Coding Categories	Skip to
501	SHOW CONDOM	Can identify as condom1	
	Can you tell me what this is?	Cannot identify as condom2	
		No response99	
502	Do you have condoms with you at this moment?	Can show condoms1	
	Please show me	Cannot show a condom2	
		No response99	
502.1	In the last 12 months have you been given	Yes1	
	condoms? (e.g. through an outreach service,	No2	
	drop-in centre or sexual health clinic)	Don't remember98	
		No response99	
503	Last time, from where did you get condom?	Shop1	
		Pharmacy2	
		Health facility3	
	(Multiple answers. DO NOT READ the possible	Bar/Guest House/Hotel4	
	answers)	Friends5	
		Clients6	
		BDS drop-in center7]
		BDS field workers8	

	The following					•
		•	•	•	the people you know, e	-
					anner described. Give th	
	initials, their	relationships to	o you. Do not list m	<u>iore than one p</u>	person next to each of t	the numbers
	beneath the					
	For the seco	nd part, circle	how satisfied you a	are with the ov	erall support you have	. If you have no
	support for a	a question, che	ck the words "No o	ne", but still ra	ate your level of satisfa	ction. Do not list
	more than 9	persons per qu	estion			
H1.	Whom can y	ou really count	one to be dependal	ble when you n	eed help?	
	No one	1) 2)	3)	4)	5)	
		6)	7)	8)	9)	
-	How satisfied	d? 6- very satis	fied. 5- fairly satisfi	ed. 4- a little sa	atisfied, 3- a little dissa	atisfied. 2- fairly
H2.		1- very dissatisf				,
H3.				more relayed w	vhen you are under pre	ssure or tense?
113.	No one	1) 2)	3)	4)	5)	sourc or terise:
	NO OHE	6)	7)	8)	9)	
H4.	How satisfies	,	,		atisfied,3- a little dissa	atisfied 2 fairly
114.		1- very dissatisf		eu, 4- a iittie 30	atisticu, 3- a littic uisse	atisticu, 2- fairty
	uissatisiieu .	1- very dissatisti	ieu			
H5.	Who accepts	you totally, inc	luding both your w	orst and your b	est points?	
	No one	1) 2)	3)	4)	5)	
		6)	7)	8)	9)	
	How satisfied	d? 6- very satis	fied, 5- fairly satisfi	ed, 4- a little sa	atisfied, 3- a little dissa	atisfied, 2- fairly
H6.		1- very dissatisf				,
H7.				u. regardless o	f what is happening to	vou?
	No one	1) 2)	3)	4)	5)	,
		6)	7)	8)	9)	
-	How satisfied	,		,	atisfied, 3- a little dissa	atisfied. 2- fairly
H8.		1- very dissatisfi	•	cu, . u	ationica, o a netic aloo	accomed, = .a,
	alssatisfied .	z very dissucisi				
H9.	Whom can v	ou really coun	t on to help you fe	al battar whar	you are feeling gener	
	dumps?	ou really count	e.p ,	ei bener when		ally down-in-the
				er better wher	i you are reening gener	ally down-in-the
	No one	1) 2)	3)			ally down-in-the
	No one	1) 2) 6)	3) 7)	4)	5)	ally down-in-the
H10		6)	7)	4) 8)	5) 9)	
H10.	How satisfied	6) d? 6- very satis	7) fied, 5- fairly satisfi	4) 8)	5)	
H10.	How satisfied 3	6) d? 6- very satisi 1- very dissatisf	7) fied, 5- fairly satisfi ied	4) 8) ed, 4- a little sa	5) 9) atisfied,3- a little dissa	
	How satisfied dissatisfied 2	6) d? 6- very satisf 1- very dissatisf ou count on to	7) fied, 5- fairly satisfi ied console you when y	4) 8) ed, 4- a little sa ou are very ups	5) 9) atisfied, 3- a little dissa	
H10.	How satisfied dissatisfied 2	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2)	7) fied, 5- fairly satisfi ied console you when y 3)	4) 8) ed, 4- a little sa ou are very ups 4)	5) 9) atisfied, 3- a little dissa set? 5)	
	How satisfied dissatisfied 2 Whom can you No one	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6)	7) fied, 5- fairly satisfi ied console you when y 3) 7)	4) 8) ed, 4- a little sa vou are very ups 4) 8)	5) 9) atisfied, 3- a little dissa set? 5) 9)	atisfied, 2- fairly
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisfi ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi	4) 8) ed, 4- a little sa vou are very ups 4) 8)	5) 9) atisfied, 3- a little dissa set? 5)	atisfied, 2- fairly
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) ed, 4- a little sa vou are very ups 4) 8)	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissa	atisfied, 2- fairly atisfied, 2- fairly
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisfi ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) ed, 4- a little sa ou are very ups 4) 8) ed, 4- a little sa	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset	atisfied, 2- fairly atisfied, 2- fairly Skip to
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) ed, 4- a little sa ou are very ups 4) 8) ed, 4- a little sa	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissassets Coding Categories	atisfied, 2- fairly atisfied, 2- fairly Skip to9 505
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) ed, 4- a little sa ou are very ups 4) 8) ed, 4- a little sa Parchaya Cruisedes	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissassets Coding Categories Samaj	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 505
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) ed, 4- a little sa vou are very ups 4) 8) ed, 4- a little sa Parchaya Cruisedes Never rec	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissassetsfied, 3- a little dissassetsfied, 3- a little dissassetsfied, 3- a ceived condom	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 5051011
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) ed, 4- a little sa ou are very ups 4) 8) ed, 4- a little sa Parchaya Cruisedee Never rec Other (Sp	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset at Samaj	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 505 10 11 96
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) red, 4- a little sa rou are very ups 4) 8) red, 4- a little sa Parchaya Cruisedes Never red Other (Sp Don't kno	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset. Coding Categories Samaj	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 505109698
H11. H12. Q. N.	How satisfied issatisfied issa	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf 1- very dissatisf Questic	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied ons	4) 8) red, 4- a little sa rou are very ups 4) 8) red, 4- a little sa Parchaya Cruisedes Never red Other (Sp Don't kno	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset at Samaj	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 505109698
H11.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf 1- very dissatisf Questic	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied	4) 8) red, 4- a little sa rou are very ups 4) 8) red, 4- a little sa Parchaya Cruisedes Never red Other (Sp Don't kno	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset. Coding Categories Samaj	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 505109698
H11. H12. Q. N.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf 1- very dissatisf Questic	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied ons	4) 8) red, 4- a little sa rou are very ups 4) 8) red, 4- a little sa Parchaya Cruisedes Never red Other (Sp Don't kno No respo	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset Coding Categories a Samaj	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 505109698
H11. H12. Q. N.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf 1- very dissatisf Questic	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied ons	4) 8) red, 4- a little sa rou are very ups 4) 8) red, 4- a little sa Parchaya Cruisedes Never red Other (Sp Don't kno No respo	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset sistem of the second of	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 505969899
H11. H12. Q. N.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf 1- very dissatisf Questic	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied ons	4) 8) ed, 4- a little sa vou are very ups 4) 8) ed, 4- a little sa Parchaya Cruisedes Never rec Other (Sp Don't kno No respo m NRS Free	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 5051096989991
H11. H12. Q. N.	How satisfied dissatisfied diss	6) d? 6- very satisf 1- very dissatisf ou count on to 1) 2) 6) d? 6- very satisf 1- very dissatisf Questic	7) fied, 5- fairly satisfi ied console you when y 3) 7) fied, 5- fairly satisfi ied ons	4) 8) ed, 4- a little sa ou are very ups 4) 8) ed, 4- a little sa Parchaya Cruisedes Never rec Other (Sp Don't kno No respo n NRS Don't kno	5) 9) atisfied, 3- a little dissasset? 5) 9) atisfied, 3- a little dissasset sistem of the second of	atisfied, 2- fairly atisfied, 2- fairly Skip to 9 5051098 →505999899

Q. N.	Questions	Coding Categories	Skip to
505	Can you obtain a condom every time you need it?	Yes1	▶ 507
		No2	
		Don't need one3	
		Don't remember98	≥ 507
		No response99	J
506	Why can't you get a condom every time you need	Cost too much1	
	it?	Shop/pharmacy too far away2	
		Shops/pharmacies closed3	
	(Multiple answers. DO NOT READ the possible	Shy to buy condom4	
	answers)	Don't know where to obtain5	
		Don't want to carry condom6	
		Other (Specify) 96	
		Don't know98	
		No response99	
507	Which is your most preferred condom brand?	Dhal1	
		Panther2	
		Number one3	
		Jodi4	
		Kamasutra5	
		Other (Specify) 96	
		Don't know98	
500		No response99	
508	Have you ever used lubricant when having anal	Yes1	
	sex?	No2	
	(Lubricants: Something to make your or your	Don't remember98	
	partner's penis slippery so it is easier to insert without pain)	No response99	
509	What types of lubricant did you used during last	Saliva 1	
309	anal sex?	Oil	
	allai sex:	Water based lube	
		Antiseptic/antibiotic cream4	
		Ghee5	
		Cream/lotion6	
		Other (Specify) 96	
		Don't know98	
		No response99	
510	Were you using a condom that time?	Yes1	
		No2	
		Don't know98	
		No response99	
511	Some people use a lubricant product made	Yes1	
	especially for using with condom. Have you heard	No2	ار ا
	of such a product?	Don't remember98	513
		No response99	
		Yes, (Name)1	
512	Could you tell me the brand name of such a	No2	
	product?	Don't remember98	
		No response99	
513	In the past 30 days, how often have you used a	Always1	──5 15
	special lubricant for condoms together with a	Most of the time2	
	condom during anal sex?	Sometimes3	
		Never4	

Q. N.	Questions	Coding Categories	Skip to
514	Why do you sometimes not use special condom	Cost too much1	
	lubricant, or never use it?	Shy to buy lubricant2	
		Don't know where to obtain3	
		I do not need to use4	
		I use other cream5	
		Not aware of such products6	
		Other (Specify)	
		Don't remember98	
		No response	
515	If the respondent is 4 in Q.N. 510 go to Q.N. 513	Decrease pain/inflammation1	
0.10		Increase feeling/stamina2	
	For you, what are the purposes of using special	Decrease risk of condom breakage 3	
	lubricant with condoms during sex?	Prevent HIV/AIDS infection4	
	Tablicant With Condon's daring sex.	Other (Specify)96	
	(Multiple answers. DO NOT READ the possible	Don't know98	
	answers)	No response	
	answersy	No response	
516	Have you faced any problems while using	Condom slippage1	
310	lubricants?	Irritation or burning sensation2	
	Tublicants:	Condom breakage	
		No problem4	
		Other (Specify) 96	
		Don't know98	
		No response99	
517	What is your convenient/preferred place to buy		
317	condoms and lubricants?	Shop 1 Pharmacy/Medical hall 2	
	Condoms and lubricants:	Bar/Guest House/Hotel3	
	(Multiple ensurers DO NOT DEAD the possible	BDS drop-in center4 BDS field workers5	
	(Multiple answers. DO NOT READ the possible		
	answers)	Parichaya Samaj6 Cruisedes7	
		Other (Specify) 96	
		Don't know98	
		No response99	
F10	In the last month, was there are hinsten as with an	Voc	
518	In the last month, was there such instance when	Yes1	
	your condom broke while you were using it?	No	
		Condom never used/didn't use	F C4
		last month	601
		Don't know98	ノ
		No response99	
519	If you have experienced condom breakage, what	Use of oil based lubricant1	
	do you think caused such breakage?	Improper use of condom2	
	, ,	Other (Specify) 96	
		Don't know98	
		No response99	
		110 response	

6.0 USE OF ALCOHOL AND DRUGS

Q. N.	Questions	Coding Categories	Skip to
601	Have you ever had any drinks containing alcohol?	Yes1	
		No2 -	→ 604
		No response99	
601.1	During the last 4 weeks how often have you had	Every day1	
	drinks containing alcohol?	3-4 days a week2	
		At least once a week3	
		Did not drink alcohol in the last	
		week	
		Don't know / remember98	
600		No response	
602	Normally what type of drinks do you take?	Local raksi1	
		Beer2	
		Jand3	
		Whisky4	
		Other (Specify)96 Don't know / remember98	
		No response99	
603	Last time you had sex, how much alcohol did you	A lot (more than 6 small beers or 3	
003	drink?	glass of local raw	
	dillik:	whisky)1	
		Some (3-4 small beers or 1-3	
	(Only one response)	glasses of wine)2	
	(cm, cme copense)	A little (1-3 small beers or 1 glass of	
		wine)3	
		No alcohol4	
		Don't know / remember98	
		No response99	
604	Some people have tried different types of drugs.	Yes No	
	Which of the following have you ever tried in the	Ganja1 2	
	last 12 months?	Chares	
	DEAD OUT ANGWEDS	Tablets 1 2	
	READ OUT ANSWERS	Glue/dendrite	
		Heroine	
COF	Come popula travini acting draves value a suring	Other (Specify)96	
605	Some people try injecting drugs using a syringe. Have you injected such drugs in the last 12	Yes	
	months	Don't remember/don't know98	
	DO NOT COUNT DRUGS INJECTED FOR MEDICAL	No response99	
	PURPOSES OR TREATMENT OF AN ILLNESS	The response	
606	In the past 12 months, have you received any	Yes1	
	medical injections?	No2	
		Don't know98	
		No response99	

7.0 SEXUALLY TRANSMITTED INFECTIONS (STI)

Q.N.	Questions	Coding Categories	Skip to
701	Could you tell me about any symptoms of STIs in	Penis discharge1	
	men?	Burning pain during urination2	
		Genital ulcers/sores3	
		Swellings in groin area4	
	DO NOT READ OUT	Anal discharge5	
	(Multiple responses possible)	Anal ulcer/sores6	
		Other (Specify)96	
		Don't know98	
		No response99	
702	Have you had a urethral discharge during the past	Yes1	
	12 months?	No2	
		Don't know98	
		No response99	
703	Have you had anal discharge during the last 12	Yes1	
	months?	No2	
		Don't know98	
		No response99	
704	Have you had a genital ulcer / sore during the	Yes1	
	past 12 months?	No2	
		Don't know98	
		No response99	
705	Have you had an anal ulcer / sore during the past	Yes1	
	12 months?	No2	
		Don't know98	
706		No response99	
706	Have you had genital ulcer / discharge / sore	Yes	
	(penis and or anal) during the past 12 months	No2	001
	(Charles and interpretable provided a superficient 702	Don't know98	801
	(Check consistency with previous questions 702, 703, 704, 705 and 706)	No response99	
	703, 704, 703 and 700 j		
707	What was the first thing you did when you had	Sought treatment from hospital 1	
	those symptoms?	Sought treatment from chemist2	
		Sought treatment from private	
		doctor/ clinician3	
	DO NOT READ OUT	Sought treatment from BDS clinic4	
		Sought treatment from	
		Parichaya Samaj5	
		Sought treatment from Cruse	
		Aids6	
		Received treatment from	
		friend7	>8 01
		Took medicine available at	
		Home8	-/
		Nothing9	
		Other (Specify)96	
		Don't remember/know98	
700		No response99	
708	Before going to see the doctor or the drug seller,	Yes	
	did you take any drugs that you thought would	No	
	treat your STI?	Don't know98	
		No response99	

Q.N.	Questions	Coding Categories	Skip to
709	Last time you had one of those symptoms that you just told me about, how many days did you wait between discovering symptoms and going for treatment (If the same day, code 1)	Number of days	30 1
710	Last time you sought treatment for those symptoms, how much did the treatment cost you, including the medicine and the fees for the service?	Rs	

8.0 HIV/AIDS KNOWLEDGE AND ATTITUDES

Q. N.	Questions	Coding Categories	Skip to
801	Have you ever heard of HIV or AIDS?	Yes 1 No 2 No response 99 Don't know 98	→9 01
802	Do you know anyone who is infected with HIV or has died of AIDS?	Yes 1 No 2 No response 99	→ 804
803	Do you have a close relative or close friend who is infected with HIV or has died of AIDS?	Yes, a close relative 1 Yes, a close friend 2 No 3 No response 99	
804	Can people reduce their risk of HIV by using a condom correctly every time they have sex?	Yes 1 No 2 Don't know 98 No response 99	
805	Can people reduce their risk of HIV by using a condom correctly every time they have anal sex?	Yes 1 No 2 Don't know 98 No response 99	
806	Can a person get the HIV virus from mosquito bites?	Yes 1 No 2 Don't know 98 No response 99	
807	Can people protect themselves from HIV by having one uninfected faithful sex partner?	Yes 1 No 2 Don't know 98 No response 99	
808	Can people protect themselves from HIV by abstaining from sexual intercourse? (This means abstaining from anal as well as oral sex)	Yes 1 No 2 Don't know 98 No response 99	
809	Can a person get the HIV virus by sharing meal with someone who is infected?	Yes	
810	Can a person get the HIV virus by using a needle that is used by someone else?	Yes 1 No 2 Don't know 98 No response 99	

Q. N.	Questions	Coding Categories	Skip to
811	Do you think that a healthy-looking person can	Yes1	
	be infected with HIV, the virus that causes AIDS?	No2	
		Don't know98	
		No response99	
812	Can a person get HIV by shaking hand with an HIV	Yes1	
	infected person?	No2	
		Don't know98	
042		No response99	
813	Can blood transfusion from an infected person to	Yes1	
	the other transmit HIV?	No	
		No response99	
814	Can a pregnant woman infected with HIV	Yes	
014	transmit the virus to her unborn child?	No2	▶ 816
	transmit the virus to her amborn china.	Don't know98	₹816
		No response99	
815	What can a pregnant woman do to protect her	Take medication1	
	unborn child against the risk of HIV transmission?	Others (Specify)96	
	-	Don't know98	
816	Can women with HIV transmit the virus to her	Yes1	
	newborn child through breast-feeding?	No2	
		Don't know98	
		No response99	
817	What have you done for yourself to avoid getting	Take medicine1	
	HIV?	Nothing2	
	(Multiple response possible)	Always use condoms3	_
		Others (Specify)96 Don't know98	819
		No response 99	819
818	What medicine have you taken?	Name1	J
010	700 (0.00.00.00.00.00.00.00.00.00.00.00.00.0	Don't know98	
		No response99	
819	To what extent do you think that you are at risk	High risk1	
	of HIV infection?	Some risk2	
		Little or no risk3	→821
		Don't know98	L822
		No response99	J
00.0			
820	Why do you think you are at risk of getting HIV?	High risk job1	
	Multiple enguers massible	Multiple sex partners	
	Multiple answers possible (DO NOT READ OUT)	Frequent and regular anal sex	
	(DO NOT READ OUT)	Irregular condom use5	822
		Needles sharing6	022
		Other (Specify)96	
		Don't know98	
		No response99	J
821	Why do you think you are at little or no risk of	Always use condoms1	
321	HIV?	Only one sex partner2	
		Partners are clean3	
	Multiple answers possible	Partners are healthy4	
	(DO NOT READ OUT)	Never share injections5	
		Share injections sometime	
		only6	
		Other (Specify)96	

Q. N.	Questions	Coding Categories	Skip to
		Don't know98	
		No response99	
822	Apart from this study center, do you know any	Yes1	
	such place in Kathmandu valley where you could	No2	
	have a confidential HIV test?	Don't know98	
	By confidential, I mean that no one will know	No response99	
	the result if you don't want them to know it.		
823	I don't want to know the result, but have you	Yes1	
	ever had an HIV test?	No2	 ₩901
		Don't know98	
		No response99	
824	Did you yourself take the test or did someone	Voluntarily1	
	else ask you to have the test?	I was asked2	
		Don't know / remember98	
		No response99	
825	When you were tested for HIV, did you received	Yes1	
	counseling? (I mean proper information about	No2	
	HIV infection and prevention, the reason for	Don't know98	
	taking HIV test and post test counseling)	No response99	
826	Please do not tell me the result, but did you	Yes1	
	yourself find out the result of your test?	No2	
		Don't know98	
		No response99	
827	When did you have your HIV test?	Within past one year1	
		One year before2	
		Don't know98	
		No response99	

9.0 STIGMAS AND DISCRIMINATION

Q. N.	Questions	Coding Categories	Skip to
901	If a male relative of yours gets HIV, would you be	Yes1	
	willing to take care of him?	No2	
		Don't know98	
		No response99	
902	If a female relative of yours gets HIV, would you	Yes1	
	be willing to take care of her?	No2	
		Don't know98	
		No response99	
903	If a member of your family gets HIV, would you	Yes1	
	want it to remain a secret?	No2	
		Don't know98	
904	If you knew a shopkeeper or food seller had HIV,	Yes1	
	would you buy food from them?	No2	
		Don't know98	
		No response99	
905	In your opinion, a person with HIV should get the	Same1	
	same, more or less health care than someone	More2	
	suffering from some other chronic disease?	Less3	
		Don't know98	
		No response99	
906	If a colleague who is working with you has HIV	Yes1	
	but he is not very sick, should he/she be allowed	No2	
	to continue working?	Don't know98	

Q. N.	Questions	Coding Categories	Skip to
		No response99	

10.0 KNOWLEDGE AND PARTICIPATION IN STI AND HIV/AIDS PROGRAMS

Q. N.	Questions	Coding Categories	Skip to
1001	Have you met or interacted with Peer Educators	Yes1	
	(PE) or Outreach Educators (OE) or Community	No2	→1005
	Mobilisers (CM) or Community Educators (CE) in	No response99	
	the last 12 months?		
1002	What kind of activities did you participate in with	Discussion on how HIV/AIDS	
	such PE /OE/CE/CM?	is/isn't transmitted1	
		Discussion on how STI is/isn't	
	(Multiple answers. DO NOT READ the possible	Transmitted2	
	answers)	Regular/non-regular use of	
		Condom3	
		Demonstration on using	
		Condom correctly4	
		Others (Specify)96	
1003	Do you know which organization were they	BDS1	
	from?	Parichaya Samaj2	
	(Adulatin la consume or actività)	Cruisedes	
	(Multiple answers possible)	Others (Specify)96	
1001	the constitution of the little DE	Don't know98	
1004	How many times have you been visited by PE, OE, CM and/or CE in the last 12 months?	Once	
	OE, CIVI and/or CE in the last 12 months?	2-3 times	
		7-12 times	
		More than 12 times5	
1005	Have you visited or been to any out reach center	Yes	
1003	(DIC, IC or CC) in the last 12 months?	No2	→
	Drop-In Center (DIC), Information Center (IC),	110	1009
	Counseling Center (CC)		2003
1006	When you went to the out reach center (DIC,IC	Went to collect condoms1	
	or CC), which activities did you take part in?	Went to learn the correct way	
		of using condom2	
	(Multiple answers. DO NOT READ the possible	Went to watch film on HIV/AIDS3	
	answers)	Participated in discussion on	
		HIV transmission4	
		Other (Specify)	
1007	Do you know which organizations run those out	BDS1	
	reach center (DIC,IC or CC)?	Parichaya Samaj2	
	/aa	Cruisedes3	
	(Multiple answers possible)	SACTs4	
		NFCC5	
		CAC	
		Others (Specify)96	
1000	How many times have you visited out read-	Don't know98	
1008	How many times have you visited out reach	Once	
	centers (DIC, IC or CC) in the last 12 months?	4-6 times	
		7-12 times	
		More than 12 times5	
1009	Have you visited any STI clinic in the last 12	Yes	
1005	months?	No	
	The state of the s	2	1013
		I .	

When you visited such STI clinic in what activities were you involved? Wildlight answers. DO NOT READ the possible answers given below) State of condom	Q. N.	Questions	Coding Categories	Skip to
(Multiple answers. DO NOT READ the possible answers given below)	1010			
(Multiple answers. DO NOT READ the possible answers given below)		were you involved?		
Answers given below Itansmitted				
Discussed on regular/non-regular use of condom			1	
1011 Do you know which organizations run those STI Clinics? (Multiple answers possible) SACTS		answers given below)		
1011 Do you know which organizations run those STI Clinics? SUMER (Specify) SPECIAL STATE SPECIAL				
1011 Do you know which organizations run those STI BDS				
Do you know which organizations run those STI Parichaya Samaj 2 2 2 2 2 2 2 2 2				
Clinics?	1011	Davis la sur dish agazziantiana wa tha a CTI		
Multiple answers possible	1011			
Multiple answers possible SACTs		Cillics	1	
NFCC		(Multiple answers nessible)		
CAC		(Widitiple answers possible)		
1012 How many times have you visited STI clinic in the last 12 months? 2				
Don't know				
1012 How many times have you visited STI clinic in the last 12 months?				
Last 12 months? 2-3 times	1012	How many times have you visited STI clinic in the		
1013				
More than 12 times 5 1013 Have you visited any Voluntary Counseling and Testing (VCT) centers in the last 12 months? Yes 1 No 1017 1014 When you visited such VCT center in what activities were you involved? Received pre-HIV/AIDS test counseling 1 Blood sample taken for HIV/AIDS test 2 Received post HIV/AIDS test 2 Received post HIV/AIDS test 2 Received post HIV/AIDS test 3 Received post HIV/AIDS test 4 Received counseling on using 3 Received post HIV/AIDS test result 4 Received counseling on using 5 Took a friend with me 6 Received information on HIV/AIDS window period 7 Other (Specify) 96 Parichaya Samaj 2 Cruisedes 3 SACTS 4 NFCC 5 CAC 6 Others (Specify) 98 99 Others (Specify) 99 99 000 1016 For how many times have you visited VCT center 1 2-3 times 2 4-6 times 3 7-12 times 4 More than 12 times 5 5 Tothers 5 Toth				
Have you visited any Voluntary Counseling and Testing (VCT) centers in the last 12 months? When you visited such VCT center in what activities were you involved? (Multiple answers. DO NOT READ the possible answers) Received pre-HIV/AIDS test counseling			7-12 times4	
Testing (VCT) centers in the last 12 months? No			More than 12 times5	
1014 When you visited such VCT center in what activities were you involved? Received pre-HIV/AIDS test counseling	1013	Have you visited any Voluntary Counseling and	Yes1	
1014 When you visited such VCT center in what activities were you involved? Received pre-HIV/AIDS test counseling		Testing (VCT) centers in the last 12 months?	No2 -	-
Counseling				1017
Blood sample taken for HIV/AIDS test 2 Received post HIV/AIDS test 2 Received post HIV/AIDS test 3 Received counseling 3 Received counseling on using condom correctly in each sexual intercourse 5 Took a friend with me 6 Received information on HIV/AIDS window period 7 Other (Specify) 96	1014	When you visited such VCT center in what	Received pre-HIV/AIDS test	
Multiple answers. DO NOT READ the possible answers Counseling Seceived post HIV/AIDS test Counseling Seceived counseling on using Condom correctly in each sexual intercourse Seceived information on HIV/AIDS Seceived information on HIV/AIDS Window period Seceived information on HIV/AIDS Seceived post HIV/AIDS test Counseling Seceived post HIV/AIDS Seceived pos		activities were you involved?	counseling1	
Multiple answers. DO NOT READ the possible answers Received post HIV/AIDS test counseling				
answers				
Received HIV/AIDS test result			-	
Received counseling on using condom correctly in each sexual intercourse		answers)		
Condom correctly in each sexual intercourse			-	
intercourse				
Took a friend with me			II	
Received information on HIV/AIDS window period 7 7 7 7 7 7 7 7 7				
Window period				
Other (Specify)				
Do you know which organizations run those VCT centers?			The state of the s	
Centers? Parichaya Samaj	1015	Do you know which organizations run those VCT		
(Multiple answers possible) Cruisedes	1013			
(Multiple answers possible) SACTS		333.		
NFCC		(Multiple answers possible)		
Others (Specify)		, , , , , , , , , , , , , , , , , , , ,		
Others (Specify)			CAC6	
Don't know				
in the last 12 months? 2-3 times				
in the last 12 months? 2-3 times	1016	For how many times have you visited VCT center	Once1	
7-12 times			2-3 times2	
More than 12 times5				
			7-12 times4	
4047 H			More than 12 times5	
1017 Have you ever participated in HIV/AIDS Yes	1017	Have you ever participated in HIV/AIDS	Yes1	
awareness raising program or community events No			No2	
in the last 12 months?		in the last 12 months?		1021

Q. N.	Questions	Coding Categories	Skip to
1018	When you participated in such events, what	Street drama1	
	activities did you participate in?	AIDS Day2	
		Condom Day3	
		Video Shows4	
	(Multiple answers. DO NOT READ the possible	Group discussions5	
	answers)	Talk programs6	
		HIV/AIDS related training7	
		HIV/AIDS related Workshops8	
		Condom use demonstrations9	
		Others (Specify)96	
1019	Do you know which organizations organized	BDS1	
	those activities?	Parichaya Samaj2	
		Cruisedes3	
	(Multiple answers. DO NOT READ the possible	Others (Specify)96	
	answers given below)	Don't know98	
1020	How many times have you participated in such	Did not participate in last 12	
	activities in the last 12 months?	months0	
		Once1	
		2-3 times2	
		4-6 times3	
		7-12 times4	
		More than 12 times5	
1021	Have you heard about Community Home Based	Yes1	
	Care (CHBC) services that are provided to people	No2	
	with HIV?		
1022	Have you heard about programs that provide	Yes1	
	essential services for people with HIV, ART	No2	
	services and that which gives information on ART		
	(Community Care Support Treatment Program)?		

11.0 GENERAL INFORMATION

Q. N.	Questions	Coding Categories	Skip to
1101	Where were you born?	District	
		VDC/Municipality	
1102	Where do you live now?	Districts:	
		VDC/Municipality:	
	(Do not ask the exact address)	Don't remember/know98	
		No response99	
1103	For how long have you been living in this district?		
		Number of Months	
		(Record "00" if less than 1Month)	
		Since Birth95	
		Don't remember/know98	١
		No response	<u>} 1201</u>
1104	Before you moved here, where did you live?	Districts:	
1104	before you moved here, where did you live.	VDC/Municipality:	
		Don't remember/know	
		No response	

12.0 INFORMATION ON BDS AND MSM NETWORK

Q. N.	Questions			Co	ding C	ategor	ies		Skip to
1201	Have you ever heard about Blue D	iamond	Yes .					1	
	Society in Kathmandu city?		No					2	
				-					
1202	Do you have friends who have also								
	relationship with males from othe	r district or							J
4000	cities than Kathmandu Valley?							. 99	<u>} 1204</u>
1203	Which districts /cities ?		<u>Distr</u>		9	City			
	(Multiple answer possible)		1						
	(widitiple aliswer possible)								
1204	How many other MSM do you kno	w (who also							
	knows you well)?								
	(Knowing someone is defined as k	eing able to		ber:					
	contact them, and having had cor	tact with							
	them in the past 12 months)		NO re	esponse				. 99	
1205	Among those people, please try to	estimate	Less	than 15	vears c	old			
	their number by their age group:		2033	tilali 13	yeurse]]			
			15-2	0 years o	old	l		_	
			21-3	0 years o	old	l			
			31-4	0 years o	old] 1		_	
			> 41	years old	d	l			
			Don'	t know				. 98	
			No re	esponse				. 99	
1206	Again, among those guys, please to								
	estimate their number by religion:		Hind	u					
			Tilliu	u					
			Budo	dhist			□	_	
			Mus	lim				_	
			Chris	stian			∐		
			Othe	rs (Spec	ifv)				
							- ****	. 98	
1207	How are you related with the pers	on who gave							
	you the coupon for taking part in t	he study?							
				•					
	(Do not ask this to the seed)								
				_					
1208	In the past 6 months,		INO I	Very					
1200	how often have you been			Often	Oft	en	Some-t	ime	Never
	orten nave you been			0	l				

to the following locations to meet male sexual partners: Discotheque Dance Restaurant (Ask for all the items proposed and probe for other locations, as well) Massage parlor Street 1 2 3 Pub/Cafe Temple Bus Station Public Toilets Cinema Hall Near Army barracks Internet (chat room) Park Discotheque 1 2 3 3 4 4 5 5 6 7 7 8 7 8 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9			
Dance Restaurant 1	4		
(Ask for all the items proposed and probe for other locations, as well) Massage parlor 1 2 3 Pub/Cafe 1 2 3 Temple 1 2 3 Bus Station 1 2 3 Public Toilets 1 2 3 Cinema Hall 1 2 3 Near Army barracks 1 2 3 Internet (chat room) 1 2 3 Personal Add (web site) 1 2 3 Personal Add (magazine 3 3	4		
Description Proposed and probe for other locations, as well) Pub/Cafe 1 2 3 3 1 2 3 3 1 3 3 3 4 3 3 3 3 3 3	4		
Description Proposed and probe for other locations, as well) Pub/Cafe 1 2 3 3 1 2 3 3 1 3 3 3 4 3 3 3 3 3 3			
other locations, as well) Pub/Cafe 1 2 3 Temple 1 2 3 Bus Station 1 2 3 Public Toilets 1 2 3 Cinema Hall 1 2 3 Near Army barracks 1 2 3 Internet (chat room) 1 2 3 Personal Add (web site) 1 2 3 Personal Add (magazine) 1 2 3	4		
Temple 1 2 3 Bus Station 1 2 3 Public Toilets 1 2 3 Cinema Hall 1 2 3 Near Army barracks 1 2 3 Internet (chat room) 1 2 3 Personal Add (web site) 1 2 3 Personal Add (magazine	4		
Bus Station 1 2 3 Public Toilets 1 2 3 Cinema Hall 1 2 3 Near Army barracks 1 2 3 Internet (chat room) 1 2 3 Personal Add (web site) 1 2 3 Personal Add (magazine	4		
Public Toilets	4		
Cinema Hall 1 2 3 Near Army barracks 1 2 3 Internet (chat room) 1 2 3 Personal Add (web site) 1 2 3 Personal Add (magazine	4		
Near Army barracks 1 2 3 Internet (chat room) 1 2 3 Personal Add (web site) 1 2 3 Personal Add (magazine	4		
Internet (chat room) 1 2 3 Personal Add (web site) 1 2 3 Personal Add (magazine	4		
Personal Add (web site) 1 2 3 Personal Add (magazine	4		
Personal Add (web site) 1 2 3 Personal Add (magazine			
Personal Add (magazine	4		
	4		
or other) 1 2 3	4		
Sauna/Steam bath			
Swimming Pools 1 2 3	4		
Home 3	4		
Telephone 1 2 3	4		
Other (Specify) 1 2 3	4		
1 2 3	4		
1209 Please mention 3 places of kathmandu valley where			
you visit most often last 6 months with your male2			
sexual partners:			
Don't know	98		
No response	99		

Annex 3: Sample Size Formulae

$$n = D \frac{[Z1 - \sqrt{2\bar{p}(1-P)} + Z1 - \beta \sqrt{P(1-P) + P(1-P)}]^2}{\alpha}$$

$$(P_2 - P)^{\frac{1}{2}}$$

n = required minimum sample size per survey round

D = design effect (assumed in the following equations to be the default value of 2)

P₁ = also added values the estimation proportion at the time of the first survey

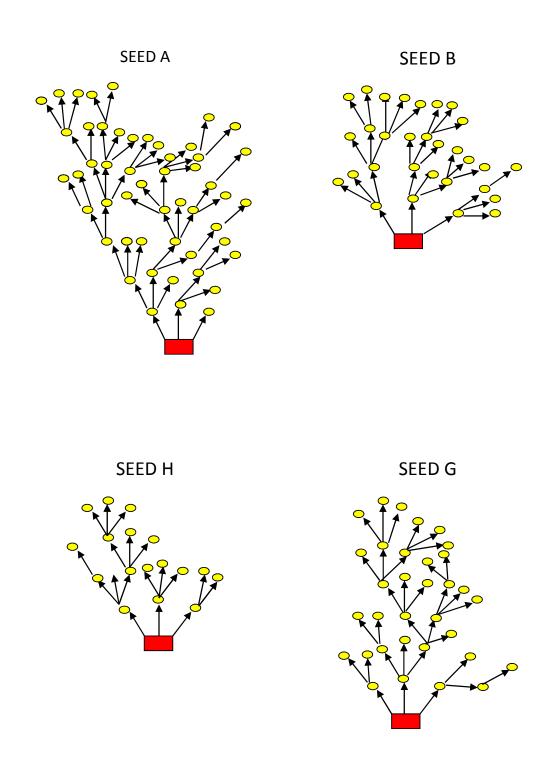
P₂ = also add values the target population at some future date, so that (P₂-P₁) is the magnitude of change of change you want to be able to detect.

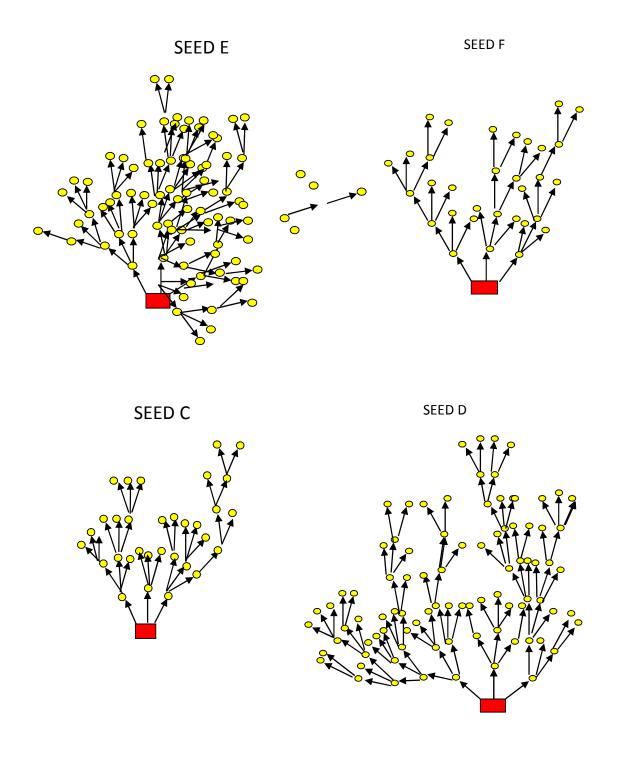
 $Z_{1-\alpha}$ = also add values the Z-score corresponding to the level of significance

 $Z_{1-\beta}$ = also add values the Z-score corresponding to the level of power

*Guidelines for repeated behavioral surveys in populations at risk of HIV, Page 47, FHI-2000

Annex 4: Respondent Driven Sampling Tree





Annex 5: Clinical/Lab Checklist

CONFIDENTIAL

INTEGRATED BIO- BEHAVIORAL SURVEY (IBSS) AMONG MALE WHO HAVE SEX WITH MALE IN KATHMANDU VALLEY NCASC/INTREPID NEPAL – 2012

Clinical/Lal	b Checklist						
Responder 2069/	nt ID Number: /						Date:
Name of C	linician:						
Name of La	ab Technician:						
(A) Cli	nical TEST		(B)	Specimen collect	ion		
						<u>Yes</u>	<u>No</u>
Weight	:		_	est counseled ab Collected for	1		2
				nea & Chlamydia ollected for		1	2
B.P.	:	mm of Hg		nea & Chlamydia Collected for		1	2
Pulse	:			Syphilis place for	1	2	
_			post-tes			1	2
			results g	given		1	2

	IEC materials given	1	2
1.0	Syndromic Treatment Information		
101.	Have you experienced genital discharge/burnin testis or epididymis in the past one-month?	ng urination/s	swelling and tenderness of
	 Yes No [If yes, give urethral discharge/scrotal swelling 	g syndrome t	reatment]
102.	Have you had genital ulcer/sore blister in the pa	ast one-mon	th?
	 Yes No [If yes, give genital ulcer syndrome treatment 	and time for	follow-up]
103.	Have you had a tender or non-tender/solid or f month?	luctuant swe	lling in the groin area in the past one
	1 Yes 2. No		
	[If yes, give inguinal swelling (bubo) syndron	ne treatmen	t and time for follow- up]

Temperature: ______º F Condom given 1

Annex 6: Self- Categorization by 'Third Gender' on the Basis of Their Sexual Orientation/Behavior

Self-Categorization	N=400	%
Man/mard	127	31.8
Meta/meti	76	19.0
Homosexual	69	17.3
Та	44	11.0
Gay	37	9.3
Dohori	21	5.3
Woman	17	4.3
Pinky meta	4	1.0
Others	4	1.0
Pinky ta	1	.3

Annex 7: Common Professional Background of Paying Partners

Professional background of clients	N=135	%
Police/Military	20	14.8
Businessman	15	11.1
Laborer	15	11.1
Student	13	9.6
Civil servant	10	7.4
Private office staff	3	2.2
Unemployed	2	1.5
Don't know	57	42.2

Annex 8: Sites Visited to Meet Sex Partners in Past Six Months

Meeting Points	MSW	/TG-SW (N=135)	Non-f	NSW/TG (N=265		MSM (N=400)				
	%	%	%	%	%	%	%	%	%		
	Very Often	Often	Some- time	Very Often	Often	Some- time	Very Often	Often	Some- time		
Park	23.7	24.4	35.6	9.8	24.2	34.3	16.8	24.3	34.9		
Discotheque	2.2	11.1	34.1	1.1	6.4	19.6	1.7	8.8	26.8		
Dance Restaurant	1.5	8.9	41.5	1.1	4.5	20.0	1.3	6.7	30.7		
Massage parlor	0.7	0.0	3.0	0.4	0.0	6.4	0.6	0.0	4.7		
Street	24.4	45.2	24.4	10.6	38.1	35.1	17.5	41.6	29.8		
Pub/Cafe	0.7	8.9	24.4	1.1	8.3	25.3	0.9	8.6	24.9		
Temple	0.7	11.9	34.8	1.9	7.9	28.3	1.3	9.9	31.6		
Bus Station	5.2	23.0	35.6	1.9	12.1	35.5	3.5	17.5	35.5		
Public Toilets	2.2	5.9	28.9	2.6	6.4	22.3	2.4	6.2	25.6		
Cinema Hall	0.7	9.6	46.7	0.8	5.7	25.3	0.7	7.6	36.0		
Near Army barracks	0.7	5.9	20.7	0.8	3.4	8.7	0.7	4.7	14.7		
Internet (chat room)	4.4	11.1	17.0	8.7	10.2	12.5	6.6	10.6	14.7		
Personal Add (web site)	0.7	3.0	8.9	1.1	3.0	10.2	0.9	3.0	9.5		
Personal Add (magazine or other)	0.0	0.0	7.4	0.8	0.4	4.5	0.4	0.2	6.0		
Sauna/Steam bath	0.0	0.0	1.5	0.4	0.4	2.6	0.2	0.2	2.1		
Swimming Pools	0.0	4.4	15.6	1.1	2.6	9.1	0.6	3.5	12.3		
Home	5.9	30.4	45.2	7.5	26.4	37.0	6.7	28.4	41.1		
Telephone	40.0	40.7	13.3	26.4	38.1	24.5	33.2	39.4	18.9		
Others	25.0	21.2	11.5	27.9	17.6	2.9	26.5	19.4	7.2		

Annex 9: Association of condom use with different partners with HIV and Syphilis infections

	ŀ	111.7						Non-MSW/TG Non-SW									MSM/TG			
	HIV			Active syphilis			HIV				Active syphilis		N	%	N	%				
Y	'es	N	lo	Y		ı	No		Yes		No		No							
N	%	N	%	N	%	N	%	N	%	N	%	N	%							
ondon	n while	you ha	d anal se	x wit	h non-	paying	male sex	partn	er in th	ne last r	month?									
9	10.2	52	59.1	2	2.3	59	67.0	4	2.0	142	72.1	146	74.1	207	72.6	207	72.6			
2	2.3	11	12.5			13	14.8	1	.5	28	14.2	29	14.7	42	14.7	42	14.7			
		5	5.7			5	5.7	1	.5	10	5.1	11	5.6	16	5.6	16	5.6			
1	1.1	8	9.1	1	1.1	8	9.1			11	5.6	11	5.6	20	7.0	20	7.0			
12	13.6	76	86.4	3	3.4	85	96.6	6	3.0	191	97.0	197	100.0	285	100.0	285	100.0			
ondon	n while	you ha	d vagina	l, ora	l or an	al sex w	ith non-p	aying	femal	e sex pa	artner in t	he last r	nonth				<u> </u>			
1	4.8	7	33.3			8	38.1			22	34.4	22	34.4	30	35.3	30	35.3			
1	4.8	1	4.8			2	9.5	1	1.6	12	18.8	13	20.3	15	17.6	15	17.6			
		3	14.3			3	14.3			10	15.6	10	15.6	13	15.3	13	15.3			
		8	38.1			8	38.1			19	29.7	19	29.7	27	31.8	27	31.8			
2	9.5	19	90.5			21	100.0	1	1.6	63	98.4	64	100.0	85	100.0	85	100.0			
ondon	n while	you ha	ve had a	nal s	ex with	a one-	time male	e clier	nt in th	e last m	nonth?						1			
11	10.5	77	73.3	3	2.9	85	81.0							88	83.8	88	83.8			
		11	10.5			11	10.5							11	10.5	11	10.5			
		2	1.9			2	1.9							2	1.9	2	1.9			
		4	3.8			4	3.8							4	3.8	4	3.8			
11	10.5	94	89.5	3	2.9	102	97.1							105	100.0	105	100.0			
ondon	n while	you ha	ve had a	nal s	ex with	regula	r male/m	eti cli	ent in 1	the last	month?									
13	13.3	71	72.4	3	3.1	81	82.7							84	85.7	84	85.7			
1	1.0	11	11.2			12	12.2							12	12.2	12	12.2			
		2	2.0			2	2.0							2	2.0	2	2.0			
14	14.3	84	85.7	3	3.1	95	96.9							98	100.0	98	100.0			
ndom	ı while y	ou hav	e had va	ginal	or ana	l sex wi	th female	client	s in the	l e last m	onth?									
ndom	n while y	ou hav	e had an	al sex	k with p	paying r	nale sex p	artne	rs in th	e last m	nonth?									
3	10.0	20	66.7			23	76.7			38	73.1	38	73.1	61	74.4	61	74.4			
		5	16.7			5	16.7			9	17.3	9	17.3	14	17.1	14	17.1			
										4	7.7	4	7.7	4	4.9	4	4.9			
		2	6.7			2	6.7			1	1.9	1	1.9	3	3.7	3	3.7			
3	10.0	27	90.0			30	100.0			52	100.0	52	100.0	82	100.0	82	100.0			
ndom	l n while y	ou hav	e had va	ginal	or ana	l sex wi	th paying t	l femal	e sex p	artners	in the last	l t month	?				<u> </u>			
		2	100.0			2	100.0			11	84.6	11	84.6	13	86.7	13	86.7			
										1	7.7	1	7.7	1	6.7	1	6.7			
										1	7.7	1	7.7	1	6.7	1	6.7			
		2	100.0			2	100.0			13		13		15		15	100.0			
	1 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 10.2 2 2.3 1 1.1 12 13.6 2 13.6 2 14.8 1 14.8 1 10.5 2 9.5 3 10.0 3 10.0	9	9 10.2 52 59.1 2 2.3 11 12.5 5 5.7 1 1.1 8 9.1 12 13.6 76 86.4 condom while you had vagina 1 4.8 7 33.3 1 4.8 1 4.8 3 14.3 8 38.1 2 9.5 19 90.5 condom while you have had a 11 10.5 77 73.3 11 10.5 77 73.3 11 10.5 94 89.5 condom while you have had a 13 13.3 71 72.4 1 1.0 11 11.2 2 2.0 14 14.3 84 85.7 condom while you have had an 3 10.0 20 66.7 3 10.0 27 90.0 condom while you have had vagina 2 100.0 condom while you have had an 3 10.0 27 90.0 condom while you have had vagina 2 100.0 condom while you have had an 3 10.0 27 90.0 condom while you have had vagina 2 100.0	9	10.2 52 59.1 2 2.3			9 10.2 52 59.1 2 2.3 59 67.0 4 2 2.3 11 12.5	9 10.2 52 59.1 2 2.3 59 67.0 4 2.0 2 2.3 11 12.5	9	Section Sect	10		Name					