

**Integrated Biological and
Behavioral Surveillance (IBBS)
Survey among Male Labor
Migrants (MLM) in Western and
Mid to Far Western Region of
Nepal, 2015**

Round V

Final Report

December 2015

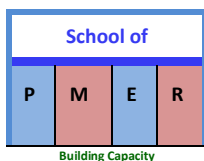


**Ministry of Health and Population
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We believe that the findings from this survey will be useful to all the policy makers, program planners and implementing agencies to design the new programs of HIV response in the country. The information generated by this study will also be helpful in developing appropriate strategies for HIV vision 2020 for Nepal

Dr. Dipendra Raman Singh
Director, NCASC

ACRONYMS

| | |
|--------|---|
| AIDS | Acquired Immuno-Deficiency Syndrome |
| ART | Anti-Retroviral Therapy |
| CHBC | Community Home Based Care |
| DIC | Drop-in-Centre |
| EQA | External Quality Assessment |
| EQAS | External Quality Assurance Scheme |
| FHI | Family Health International |
| FP | Family Planning |
| FPAN | Family Planning Association of Nepal |
| FSW | Female Sex Worker |
| GOs | Governmental Organizations |
| HIV | Human Immuno-Deficiency Virus |
| HTC | HIV Testing and Counseling |
| IBBS | Integrated Biological and Behavioral Surveillance |
| ID | Identification Number |
| IEC | Information, Education and Communication |
| KAP | Key Affected Populations |
| MLM | Male Labor Migrant |
| MSM | Men who have Sex with Men |
| NANGAN | National NGOs Network Group Against AIDS Nepal |
| NCASC | National Centre for AIDS and STD Control |
| NGO | Non-Governmental Organization |
| NHRC | Nepal Health Research Council |
| NPHL | National Public Health Laboratory |
| OE | Outreach Educator |
| PE | Peer Educator |
| PHCC | Primary Health Care Centre |
| PLHIV | People living with HIV |
| PMTCT | Prevention of Mother to Child Transmission |
| PPS | Probability Proportional to Size |
| PWID | People Who Inject Drugs |
| SACTS | STD/AIDS Counseling and Training Services |
| SGS | Second Generation Surveillance |
| SI | Strategic Information |
| SITWG | Strategic Information Technical Working Group |
| SLC | School Leaving Certificate |
| SPSS | Statistical Package for the Social Sciences |
| STI | Sexually Transmitted Infection |
| WHO | World Health Organization |

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EXECUTIVE SUMMARY

This is the fifth round of Integrated Biological and Behavioral Surveillance (IBBS) survey conducted among 720 Male Labor Migrants (MLM) (360 migrants of Western Region and 360 migrants of Mid to Far Western Region). Survey was conducted in 11 districts of both the Regions (Five districts: Kaski, Syangja, Palpa, Kapilvastu, Gulmi of Western Region and Six districts: Banke, Surkhet, Kailali, Kanchanpur, Doti and Achham of Mid to Far Western Region).

Field work for the survey was carried out during 9th July to 8th August, 2015. The survey was undertaken primarily to track the trend of HIV prevalence among MLMs and to understand risky sexual behaviors among MLMs of Western and Mid to Far Western Regions of Nepal. Information on the socio-demographic, history of migration, sexual behavior and condom use; knowledge on STI, HIV and AIDS; and exposure to STI, HIV and AIDS awareness programs; and stigma against HIV infected person were collected using a structured questionnaire. Prevalence of HIV was determined by testing blood samples using three different test kits: Determine HIV 1/2 test as a first test to detect antibodies against HIV, Uni-Gold test as a second test, and the STAT PAK test as a tie breaker test as per the HIV Testing and Counseling (HTC) guideline of National Centre for AIDS and STD Control (NCASC).

KEY FINDINGS

Comparison of the results of different IBBS surveys (2006-2015)

HIV prevalence among MLMs shows declining trend in survey clusters (1.1% in 2006, 1.4% in 2008, 1.1% in 2012 and 0.4 in 2015). The condom carrying practices of MLMs of Western Region has been improved (17.5% in 2012 to 24.4% in 2015) in the recent years. There was significant ($P < 0.01$) decrease in the condom carrying practices of MLMs of Mid to Far Western Region (32.2% in 2010, 31.1% in 2012 and 17.5% in 2015). Proportion of the MLMs who had knowledge of ABC (23% to 36%) and BCDEF (13% to 21%) of the HIV prevention has been improved respectively from 2012 to 2015 in the Western region. Proportion of MLMs who had met or discussed with Outreach Educators/Peer Educators in this round of survey has been declined (7.8% in 2012 to 2.8% in 2015) in both the regions.

HIV Prevalence

Out of 720 MLMs who participated in this survey, 3 (0.4%) were found HIV positive. Prevalence of HIV infection among the MLMs of the Mid to Far Western Region (0.6%) was higher than the MLMs of the Western Region (0.3%).

Socio-demographic Characteristics

Mean age of the MLMs was 32.0 ± 9.1 years. Two-fifths of the MLMs had 6-9 years of formal schooling while 12.2 percent of them were illiterate. Illiteracy was more frequently observed among the respondents of Mid to Far Western Region (20%) than the Western Region (4.4%). Brahmins/Chhetri accounted for the highest proportion of respondents in Western Region (44.7%) whereas Dalits accounted for 44 percent of the MLMs of Mid to Far Western Region.

Migration history

Maharashtra (47.5%) and Delhi (36.8%) were the major destinations for migration among MLMs. Mean duration of stay in India was almost five years. Mean age at first migration was 23.6 ± 7.7 years. Most of the MLMs (64.9%) used to work as laborer or factory workers in India.

Marriage and Sexual behavior

Nearly forty (39.5%) percent of MLMs had got marriage before 20 years of age and this proportion was considerably higher among the MLMs of Mid to Far Western Region (46.7%) than the MLMs of Western Region (28.5%). Almost 80 percent of the MLMs were living together with their wives. More than nine out of every ten MLMs (91.1%) had ever had sex with female. Almost 54 percent of the respondents had first sexual contact before 20 years of age. Mean age of the respondents at first sex was 19.7 ± 3.5 years.

Sexual Contact and Condom Use

Almost 8 percent of the MLMs had ever had sex with FSWs in Nepal. Out of those MLMs who had ever had sex with FSWs in Nepal, more than four-fifths (80.4%) of them had contact with two or more FSWs. In an average, MLMs had sexual contact with 4.5 ± 4 FSWs in Nepal. Slightly more than half (55.4%) of the MLMs who had sex with FSWs in Nepal had used condom and almost two-fifths (39.3%) of those who had sex with FSWs in the past one year had used condom consistently.

About 11 percent of the MLMs had ever had sex with FSWs in India. Three-quarters of the MLMs who had ever had sex with FSWs in India had sex with two or more FSWs in their lifetime. In an average, MLMs had sex with 5 ± 6 FSWs; with range being 2-9. Almost 6 percent of the MLMs had sex with FSWs in India in the past year; out of them, only 45.2 percent had used condom during the last sex. Almost nine-tenth (89.5%) of the respondents who used condom in the last sex had used the same with their own decision. A total of 72.7 percent respondents had used condom consistently in the sex with FSWs in India in the last year.

Availability of Condom

A total of 21 percent MLMs always used to carry condoms when they attempt for sexual contact. Slightly more than seven out of every ten (71.4%) respondents availed condoms from the Health Post/PHCCs and 55.3 percent received the condoms from pharmacies. Less than one-fifth (18.2%) of the MLMs obtained condoms free of cost and 15.7 percent of them availed by purchasing from different sources.

Knowledge of STI, HIV and AIDS and Treatment of STIs Treatment

Nearly 82 percent of the MLMs had heard about HIV and AIDS. Major sources of information to get the knowledge about HIV and AIDS were Radio (47.6%). A total of 31.5 percent respondents had knowledge of all the three {A (abstinence from sex), B (being faithful to one partner or avoiding multiple sex partners), and C (consistent condom use or use of a condom during every sex act)} as HIV-preventive measures. Less than one-fifth (17.2%) of the respondents had knowledge of all the five components {D (a healthy looking person can be infected with HIV), 41 percent of them identified that E (a person cannot get HIV from a mosquito bite), and 16.5 percent knew that F (A person cannot get HIV by Sharing mean with an HIV infected persons)} BCDEF of HIV prevention and control. Commonly understood STIs or symptoms STIs among MLMs were; HIV and AIDS (50.4%), Syphilis (24%) and ulceration around the genitalia (16.1%). One percent of the MLM complained the presence of white discharge or pus from the genitals and 1.1 percent had burning urination. Out of 15 MLMs who experienced some symptoms of STIs in the past one year, one-third (33.3%) of them had received the treatment against these symptoms. Almost three- fifths (57.1%) of the respondents had received treatment from private clinics and two- fifths (42.9%) had received the treatment from hospitals; and 71.4 percent of them had received counseling services.

Exposure to STI, HIV and AIDS Program

Only 2.8 percent of the respondents had ever met or discussed or interacted with peer educators or outreach educators and 0.3 percent of them visited to the Drop in Centers in the last 12 months. Only 0.7 percent of the respondents had visited to the HIV testing and Counseling Centers within last 12 months. Similarly, 2.8 percent of the respondents had ever heard about PMTCT services. Out of those MLMs who had heard about PMTCT services, more than half of them (55.0%) were known about the availability of these services. A total of 10.7 percent respondents had heard about the Anti- retroviral Therapy services. Only 2.1 percent of the respondents had ever heard about the viral load testing services and 2.2 percent of them had heard about the Community and Home Based Care.

Conclusion

This fifth round of IBBS survey among the Male Labor Migrants has been conducted under the leadership of NCASC with support from The Global Fund and technical management of Save the Children. This survey provides an insight into the estimated prevalence of HIV infection among MLMs. It is also an assessment of sexual risk behaviors of those survey populations. A cross-sectional survey using both the behavior related structure questionnaire and biological laboratory examination was done to reveal the HIV prevalence and the risk behaviors among MLMs.

This survey identified that 3 MLMs had HIV infection. Prevalence of HIV infection was 0.4 percent among those respondents who were of 25 or more years old while none of the respondents below 25 years old had HIV infection. Ever married MLMs of Mid to Far Western Region and never married respondents of Western Region had higher prevalence HIV infection than the counterparts in never married and ever married respondents of respective regions. A total of 0.8 percent Janajati in Western Region and 1.2 percent of Dalits in the Mid to Far Western Region had HIV infection; and none of the respondents who belonged to the other caste had HIV infection. All those respondents who were HIV positives had ever had sex with FSWs in India.

Recommendation

Findings of this survey revealed that the coverage of program targeted for male labor migrants was very low in the survey districts. Although the HIV infection is in decreasing trend, its transmission is still continues Thus, there is need to organize awareness programs that focus on STI, HIV and AIDS among MLMs. In this case, organizers should track out the districts having high density of migrants that cover all possible migrants.

CHAPTER 1: INTRODUCTION

1.1 Background

Nepal is one of the major source countries of migrant laborers, helping to fulfill the demand of the rapidly industrializing countries in Asia and abroad (ADB, 2009). Foreign employment provides an alternative livelihood for many young Nepalese populations (CARAM Asia, 2007). Top destination countries for migration are India. Migrant population have a greater risk for poor health in general and HIV infection in particular. This is due to the impact of sociocultural patterns of the migrant's situation on health, their economic transitions, reduced availability and accessibility of health services; and the difficulty of the host country's health care systems to cope with the traditions and practices of the immigrant" (NIDS, 2006).

When people migrate, they are exposed to behaviors and norms that tend to be different from those of their place of origin. Migration has been identified as an independent individual risk factor for the acquisition of Human Immuno-Deficiency Virus (HIV) (UNESCO/UNAIDS, 2000). As social control in migrant communities is limited, sexual relationships that are prohibited at home are often possible abroad. Besides continuing to belong to their home communities, migrants gradually adapt to their new communities abroad. In doing so, they adopt so called 'migrant identity' which can lead to a denial of certain sexual behaviors. Multiple kinds of sexual behaviors seem to be possible in abroad, as long as other people do not notice them (Gurung, 2004).

Nepal is categorized as a country facing concentrated HIV epidemic. National Centre for AIDS and STD Control (NCASC) has estimated that there were 39249 People Living with HIV (PLHIV) in Nepal in 2014 with the prevalence of HIV infection among adult population being 0.20 percent. The existing National HIV and AIDS Strategy (2011-2016) identifies that People who Inject Drugs (PWID), Female Sex Workers (FSWs) and their clients, Male Labor Migrants (MLM) and their spouses and Men who have Sex with Men (MSM) are the Key Affected Populations (KAP) (NCASC, 2012).

The National HIV and AIDS Strategy 2011-2016 has adopted the strengthening of Second Generation Surveillance (SGS) system as one of the key principles of strengthening surveillance of HIV and Sexually Transmitted Infections (STIs) in Nepal. Conducting Integrated Biological and Behavioral Surveillance (IBBS) Surveys among KAPs in selected high risk clusters at the regular intervals based on the National Plan on HIV and STI Surveillance is one of the key components of SGS and also strategic direction of the national strategy (NCASC, 2015). By 2015, four rounds of IBBS surveys (2006, 2008, 2010 and 2012) have already been carried out among MLMs in Western and Mid to Far Western Districts of Nepal and this constitutes the fifth round of survey.

1.2 Rationale of the IBBS among Male Labor Migrants

Nepal's HIV and AIDS epidemic is concentrated amongst KAPs (NCASC, 2006). These groups include People Who Inject Drugs (PWID), FSWs and their clients; and MSMs. Migrant males, uniformed service and transport workers have also been identified as key populations at risk. However, the data demonstrates that in the case of the migrants this holds true only when they serve as the clients of sex workers both in the country and abroad. In Nepal, hundreds of migrant workers leave the country for overseas employment every day. They are vulnerable to HIV infection; which becomes more important when they return to Nepal and then they transmit the infection to their wives. An understanding of the association between perception of

risk of HIV infection and their risky sexual behaviors may facilitate the design of AIDS-preventive measures necessary to halt the transmission of HIV infection to the different groups and subgroups of population (Dahal et al, 2013). The present study attempted to identify the sexual behavior of Nepali migrant workers in India and their perceived risk of HIV infection.

IBBS survey, one of the key components of second generation HIV surveillance, have been used in many concentrated epidemic contexts. More recently, IBBS surveys have also been recommended in generalized epidemic settings (Akwaru et al 1998). As the HIV incidence has declined up to 50% in 26 countries of the World over the last decade, there is a need for more focused and valid second generation surveillance approaches including community led IBBS surveys to understand the dynamics and drivers of micro-epidemics (UNAIDS, 2013). In 2012, the HIV prevalence among MLM was 1.3 percent (NCASC, 2012) zero.

In the early 1990s, a national HIV surveillance system was established in Nepal to monitor the HIV epidemic and to inform evidence-based HIV prevention efforts (NCASC, 2012). Since then, IBBS surveys have been conducted at the interval of two-three years among KAPs of epidemic zones. The epidemic zones are based on different distributions of key populations at risk, their mobility links and HIV risk behaviors.

The main objective of IBBS survey among MLMs is to track changes in risk behaviors such as sexual contact with FSWs, non-use of condoms and unsafe needle uses; HIV prevalence and other symptoms of STIs. This IBBS survey attempted to collect information about the different behavioral and biological outcomes. These include general information of the MLMs: place of birth, current place of residence, duration of stay at current place and previous place of residence. Personal information: age, ethnicity, educational status, marital status, age at marriage, current living situation; Information on sexual intercourse: age at first sex, type and number of sex partners. Use of condom; condom use with different episodes of sex such as last sex, past month and the last year, access to condoms, condom carrying practices, place to avail condoms, preferred place to buy condoms, use of oral and injecting drugs, use of alcohol, awareness of HIV and AIDS, knowledge of HIV and AIDS, promotion of condom, exposure to interventions programs, exposure to outreach and peer educators, visited Drop in Centers, visited HIV testing and counseling centers and STI services and participation on community awareness events, knowledge and use of services on sexually transmitted infections. Similarly, HIV test was performed for biological test.

1.3 Objectives of the Survey

Primary objectives of this survey were to track the trends in the prevalence of HIV and to assess the sexual risk behaviors related to HIV and STI among the MLMs of Western and Mid to Far Western Region of Nepal.

Secondary objectives of the survey are:

- To collect information on various personal, social and demographic characteristics of MLMs,
- To assess the level of knowledge on STI, HIV and AIDS,
- To find out the exposure of MLMs to the various HIV and STI prevention and control programs.

CHAPTER 2: METHODOLOGY

2.1 Implementation of the Study

School of Planning, Monitoring, Evaluation and Research (SPMER) carried out this survey in coordination with NCASC and Save the Children Nepal. SPMER was responsible for overall management of the survey including laboratory set up in the field sites, providing training to the researchers, counselors and lab technicians, supervising and collecting blood samples, and conducting HIV test. SPMER carried out mapping to estimate the population of MLMs followed by the data collection using preformed tools. Data analysis and report writing was done in close coordination with and support of NCASC and Save the Children Nepal.

The survey was conducted in close collaboration with many organizations working and advocating for MLMs like National NGOs Network Group against AIDS Nepal (NANGAN), Indreni Samaj Kendra (ISK) Nepal, Palpa; Prerana, Gulmi; Nava Kiran Plus, Kailali and Surkhet; Working for Access and Creation Nepal (WAC-Nepal), Achham; NAMUNA Integrated Development Council (Namuna-IDC), Kapilvastu; Community Support Group (CSG), Kaski; NDC-Syangja; Community Development Forum Nepal (CDF-Nepal), Doti; PLHIV Network, Doti; Nagarjun Development Community (NDC- Banke); Sustainable Development Facility (SDF- Surkhet); Nepal Red Cross Society (NRCS), Kaski and Nepal National Social Welfare Association (NNSWA) Kanchanpur.

External Quality Assurance (EQA) of all the HIV positive samples and 10 percent of all the negative samples was carried out at the National Public Health Laboratory (NPHL).

2.2 Survey Populations and Survey Area

This survey was conducted among MLM who were returnee migrants; identified as one of the high-risk sub-groups. The definition of the MLMs used in the survey was “a male returnee migrant aged 18-49 years, having stayed continuously or with interruption for at least 3 months in India as a migrant worker and having returned to Nepal within three years prior to the date of the survey”.

Five districts from the Western development region (Syangja, Kaski, Gulmi, Palpa, Kapilvastu) and six districts from the Mid to Far Western development regions (Banke, Surkhet, Doti, Achham, Kailali and Kanchanpur) were selected for this IBBS survey (Annex-3)

2.3 Survey Design

This survey was a cross sectional study. Similar methods that were used in the previous rounds of survey were followed in this survey. Face to face interview was conducted to assess the risk behaviors of MLMs. Similarly, to estimate the prevalence of HIV, blood test was performed. HIV test was performed by using determine - HIV ½ as per NCASC guideline to detect HIV antibodies. All the first positive test results were subjected for Uni-Gold HIV 1/2 test. If there was a tie between the first two tests, a third test was performed was performed by using STAT PAK as a tie-breaker.

2.4 Size Estimation/Mapping

The fieldwork of mapping was conducted by different groups of experienced researchers covering selected districts from the western part of Nepal. The researchers initially visited to different district level stakeholders including District Public Health Office (DPHO) and NGOs working in the areas of MLMs as part of preliminary mapping exercise. In addition to this, information about the estimated MLMs, HIV and AIDS and the organizations advocating for

MLMs was collected from local NGOs and CBOs working on MLMs. Furthermore, CBS 2011 census data was used to determine the population of MLMs in each of the districts of the study regions and these data were verified through preliminary mapping exercise by the team of School of PMER. Size estimation of MLMs was done by adjusting 1.35 incremental factors for the population of migration for the last four years since 2011.

Two days training program was organized in June (23rd-24th June) 2015 to plan and implement mapping exercise. Training program covered about techniques and process of estimation of population of male labor migrants in the selected districts. Mock mapping exercises were performed from all research participants.

2.5 Sampling and Sample Size

This IBBS survey followed the similar sampling procedures, which were so utilized in previous rounds of IBBS surveys among MLMs in Western and Mid to Far Western Region of Nepal. To compile the sampling frames, a preliminary mapping exercise was conducted in the first phase of the survey. In the preliminary visit of the survey sites, the survey team identified the locations and estimated the number of survey populations. A list of locations with the enumerated number of MLMs was prepared for the both the Western and Mid to Far Western Regions.

A two stage cluster sampling procedure was utilized to select number of MLMs from each of the clusters. In this first stage, probability proportional to size (PPS) method was used to select 30 clusters from the Western Region and other 30 clusters from the Mid to Far Western Region of Nepal. A Village Development Committee (VDC) consisting at least 20 returnee labor migrants was defined as a cluster. Based on the preliminary information collected prior to the field survey, a list of VDCs with an estimated number of returnee migrants was made through household enumeration. In the second stage, every 12 MLMs were selected from each of the selected clusters which were identified in the first stage through systematic random sampling method. As per survey guideline 360 labor migrants were selected from each of the Western and Mid to Far Western Region of Nepal. Thus, a total of 720 MLMs were selected for the interview and testing of blood samples.

2.6 Stakeholder and Consultative Meeting

The School of PMER's core survey team organized meeting with concerned stakeholders. School of PMER presented survey implementation plan in details and sought support and recommendation from those stakeholders who participated in these consultative meetings. Survey team shared the findings of the preliminary mapping exercise and sought inputs from the participants on the locations identified through visits. The enumeration list was also shared with the stakeholders in the meeting. Additionally, the objectives of the survey, its methodologies, fieldwork dates, and location of the sites were also shared with all the stakeholders. The stakeholder meeting was organized in district level prior to field work.

2.7 Identification and Recruitment Process of MLMs

Field researchers were trained about the survey area and methods for identification of survey populations. District maps with selected VDCs/clusters including work schedule was provided to each of the researchers to facilitate them to locate the survey sites and to identify the eligible participants of the study. A community level meeting was organized at each of the field sites of study districts with an aim to inform the community about the general objective and methods of the survey. Local leaders, health personnel, government representatives, and other key informants participated in the meeting.

Once the survey teams reached in the selected clusters, each of the teams conducted household listing and established an interview site with a temporary clinic and laboratory facilities in strategic locations of the selected clusters. The identified survey participants were further confirmed through the screening questions. If the researcher confirmed the participants as a MLM, then only they were listed as prospective respondents of the survey. Final selection of the respondents was made through the systematic random sampling methods.

Randomly selected respondents were brought in established sites for interviews, biological sample collection as well as for clinical examination and treatment of STIs in order to ensure that privacy during data collection was maintained. The interview sites were selected based on recommendation of the community people. The temporary mobile clinic and interview sites were operated at each location for one day.

Once the final selection of the respondents was made randomly, the respondents were requested to take part in the survey. Respondents who satisfactorily answered all the screening questions were briefed about the purpose, objectives, and methodology of the survey. Once the selected MLMs agreed to participate in the survey, the researchers invited them into the clinic and interview site for an interview and collection of a blood samples required for the testing of HIV.

2.8 Refusals

People from local personnel and peer group were used as local motivators for this survey. This helped the study team to build good relationship with returnee migrants and played a facilitating role in motivating the randomly-selected respondents to participate in the survey. A short briefing was made to each of the respondents about the objective of the study, and the benefits and risks of participation in the survey. Every respondents had right to participate or refuse in this survey and survey team had respected their decisions throughout the survey. Altogether, 13 MLMs refused to take part in the survey. All these refusals were replaced randomly to full fill the required sample.

2.9 Control of Duplication

To avoid repetition of the same MLM in the selected sites, counselors asked various questions before their recruitment. Questions related to their experiences of undertaking any blood test and having had an HIV test or test for other diseases, the meetings with the peer educators for the blood test, and the possession of an ID card with a survey number were meticulously discussed. Further, the lab technicians and clinical person who examined and treated the respondent at the survey site had also probed questions to avoid the repetition.

2.10 Recruitment of and Training to the Research Team

A two days intensive training program was organized for the experienced researchers working at School of PMER. In the training, objectives and the purpose of the survey was explained along with the ways of mapping, tools used in mapping, possible key informants and ethical issues of this survey. Training also covered research protocol, rapport building and sharing of past experiences from the stakeholders. A mock mapping exercise was an integral part of the training. These activities were organized to enhance the capacity of researchers on mapping.

The experienced field researchers who had been involved in previous round of IBBS surveys and other similar types of sero-surveys were given priority to be selected in the research team. Training was provided to the field researchers at the School of PMER by trainers from NCASC, Save the Children, NPHL, FHI 360 and SPMER. The field researchers in lab team were given practical exposures and practices in accordance with the national algorithm. A six-day intensive

training program was organized from 2nd to 7th July, 2015 for the team to familiarize them about the study.

Training sections were based on the curriculum of IBBS surveys. It covered the basic knowledge of HIV and AIDS and STIs, introduction, objectives and the purpose of the IBBS survey, sampling and sample recruitment process, administration of the questionnaire, techniques of approaching MLMs, recording keeping, counseling, techniques of HIV test and kit used on IBBS survey, reporting and ethical issues.. The training session also focused on research protocol, informed consent, rapport building, sharing of previous experiences from the stakeholders. Mock interviews, role-play based on actual field situations, participatory class lectures and open discussion were the integral parts of the training sessions.

2.11 Field Operation Procedures

Field work for this survey was carried out during July to August 2015. Following procedures were carried out in the field to gather information about the sexual behaviors and biological samples of the MLMs for the testing of HIV.

2.11.1 Clinic Set-up

The survey team used locally available shelters such as Health Posts, Schools and Private houses to operate the clinic and conduct interview among respondents. Hygiene and sanitation was strictly maintained at each of the clinics. There were separate rooms for waiting, counseling, laboratory process, physical examinations, and conducting interviews.

2.11.2 Clinical Procedures

Interview was conducted only after taking informed consent from each of the respondents and the consent form was duly signed by interviewers and the personnel who witnessed the consent-taking procedures. After completion of the interview, a trained Health Assistant (HA) examined the respondent for any signs of STI or general health problems. All respondents with STI symptoms were referred to nearby DIC or hospital where STI, HIV and AIDS services were available. The clinical personnel provided Syndromic treatment according to the national guidelines. Some basic medicines were also provided to the treated respondents.

2.11.3 Laboratory Procedures

After pre-test counseling, the lab technician briefly explained the respondents about the HIV testing process and offered for consent for drawing blood. Blood samples were drawn in 3milli-litertubes by disposal syringes. The samples were tested for HIV on the spot within an hour.

This survey was designed to provide test results with pre- and post-counseling in the shortest possible time. As the survey team has to move from one to another cluster reagents that can be stored at room temperature were chosen. Blood samples were tested using HIV1/2 as first test to detect antibodies against HIV. If the first test result was positive, a second test was performed using Uni-Gold HIV ½. In case of a tie between the first two tests, a third test was also performed using STAT PAK as a tie breaker.

2.12 Survey and Laboratory ID Codes

Confidentiality was strictly maintained. Non identifying survey ID codes were used for all data components pertaining to the survey. The use of survey codes were prevented linking consent forms with actual surveys and referral history.

A separate laboratory code was maintained to identify participant results from rapid tests and to label all specimens for laboratory testing. Each of the respondents was assigned a laboratory

code that was linked to their ID code in order to link behavioral and biological data. Laboratory codes were pre-printed.

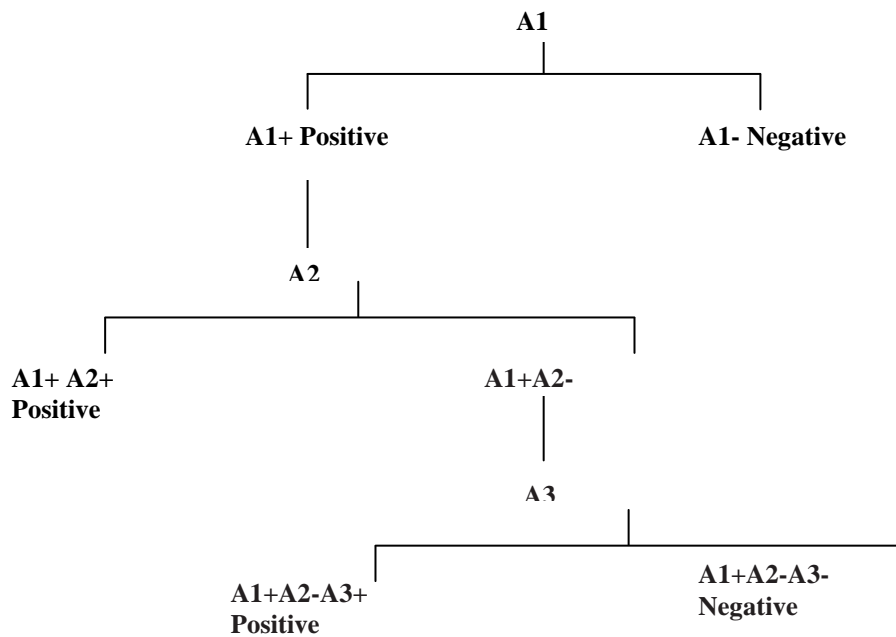
2.13 HIV Rapid Testing

HIV rapid testing method was conducted at the survey site after completion of pre-test counseling by certified laboratory technicians. Rapid testing was conducted by using a serial testing scheme based on the NCASC national guideline algorithm and approved commercial test kits. All those participants who had given consent were tested using Allere Determine HIV-1/2 rapid test kits. Non-reactive results were considered negative, and reactive results were confirmed with Uni-Gold HIV rapid test. If Uni-Gold results were nonreactive, results were recorded as indeterminate. Thereafter, in case of tie exists between first and second tests, a third test STAT PAK was used as a tie breaker. All participants received post-test counseling, with specific messages tailored to their test result. Persons with any reactive result, or indeterminate result, were given referral to HIV care services and further counseling and testing.

Interpretation of the Test Results

- All samples negative by first test were reported as negatives.
- All samples positive by one test only subjected to the second test.
- All the positive tests by tiebreaker test were reported positive
- All negative tests by tiebreaker test were reported as negative.

Figure 2.1: HIV Testing Strategy II Algorithm



Note:

| | |
|-------------------|-----------------|
| A1 (First test): | Determine HIV ½ |
| A2 (Second test): | Uni-Gold HIV |
| A3(Third test): | Stat Pak |
| "+" | Reactive |
| "-" | Non-reactive |

Table 2.1: Sensitivity and Specificity

| Test Kits | Company | Initial | Confirm | Tie | Antigen | Spec. | Sens. |
|-----------|-----------------|---------|---------|-----|-----------------------|--------|--------|
| Determine | Allere | X | | | Recom HIV-1 and HIV-2 | 99.4% | 100.0% |
| Uni-Gold | Trinity Biotech | | X | | HIV-1 and HIV-2 | 100.0% | 100.0% |
| STAT PAK | CHEM BIO | | | X | HIV-1 (gp41; p24) -2 | 99.3% | 100.0% |

2.14 Dried Blood Spots Creation

Creation of dried blood spots (DBS) specimens on Whatman filter paper for HIV surveillance testing in the National Public Health Laboratory (NPHL) was done with the explicit consent of the participants using a dried blood spot card prepared at the same time as the rapid tests. DBS specimens were labeled with cryogenic barcoded labels containing the participant's laboratory code. Prepared DBS were sent to the NPHL for EQAS. Specimens were stored in waterproof boxes on site and then these were sent to the NPHL on weekly basis.

2.15 Internal and External Quality Assurance

Regular monitoring was an integral part of the quality assurance mechanism of School of PMER during the mapping. Survey core team members visited the field to support field researchers to make them more responsible for quality work and quick response. Besides this, the core team cross-verified the mapping data collected by researchers through interview with different key informants and various field visits. During data collection special measures were adopted to avoid repeated interviews with the same MLM. The researchers were instructed to ask about previous experiences of blood test, inspect the arm from where blood was drawn and possession of ID card issued by SPMER in case of any doubt about duplication. The confidentiality was maintained strictly throughout the study duration.

External Quality Assurance Scheme (EQAS) is the evaluation of the performance of a testing laboratory by an external agency. An EQAS is very essential in such studies to determine the quality of testing. All the HIV positive samples and 10 percent of all the HIV negative samples were retested at NPHL in this survey as an EQA of HIV testing. The EQA samples were sent to the NPHL with new code numbers in the DBS card. NPHL test results were similar to the results of the field research team. This indicates the validity and reliability of the laboratory process of the study.

2.16 Research Instruments

A quantitative research approach was adopted in this survey. The same questionnaire used in the previous rounds was also used in this survey as survey tools. This tool was supplied by NCASC, Nepal. Additionally, to assess the exposure of MLMs to the STI, HIV and AIDS programs, series of questions on selected program activities were also collected in this round of the IBBS. The survey team provided syndromic treatment for STI problems to the study participants and a lab technician collected blood samples for HIV testing. Strict confidentiality was maintained throughout the survey period.

2.17 Pretesting of Research Tools

The researchers from School of PMER conducted pretesting of the survey tools among study population. Altogether, 19 questionnaires were tested on different locations in Kavre district. Only minor grammatical changes were made after the pretesting.

2.18 Plan for Data Management

All the completed questionnaires were peer reviewed on the day of the interview by interviewers and thoroughly checked by the field supervisors before bringing them into the office of School of PMER, based in Kathmandu for further checking, coding, processing, data entry, and analysis.

A double data entry system was used to detect, correct, and minimize errors in data entry. Authorized persons working with password-protected computers completed the data entry and data analysis. Simple statistical methods such as mean, frequency distribution, and cross tabulation were used to analyze the data. The CS-Pro database program was used for data entry, and the data was analyzed using SPSS 18.0.

2.19 Monitoring and Supervision

The overall monitoring and supervision of the survey was done by SITWG members, NCASC, Save the Children and Saath-Saath Project and the technical consultant. Monitoring supports were provided at the data collection sites in the districts and provided feedbacks and suggestions to maintain the quality of work. Their feedbacks and suggestions were adopted by the study team.

Internally, School of PMER followed the result based participatory monitoring and supervision process for this survey. Since the beginning of the survey, team leader, co-team leader and coordinator made regular monitoring and supervision visits of the work in progress in the field. The site coordinators were responsible for day-to-day basis to ensure that the survey was implemented in the field according to the protocol. Team meetings were held every week to plan ahead and solve any field-level problems. The site coordinators in the field reported to the survey coordinator frequently to update the field operations.

2.20 Ethical Consideration

Ethical approval was obtained from the Nepal Health Research Council (NHRC). The participants involved in the in-depth interviews and sample surveys were fully informed about the nature of the study. They were informed that their participation was voluntary and that they were free to refuse to answer any question or to withdraw from the interview at any time. They were also informed that such withdrawal would not affect the services they would normally receive from the survey.

A consent form describing the objectives of the study, the nature of the participant's involvement, the benefits, and confidentiality issues was clearly read aloud to them (Annex). A specific ID card was provided to each of the respondents so that their names and addresses were not recorded anywhere. HIV test results along with post-test counseling were provided to the individual participants in a confidential manner. A travel allowance of NRs 200 and fruit juice/snack was provided to each of the respondents as compensation. The research team maintained the confidentiality of the data collected throughout the survey. The interviewers submitted the completed questionnaires to the field supervisor on the day of each interview. The supervisor reviewed and kept those questionnaires in separate locked bags where no one had access to those data except the researchers. The supervisor then transported the questionnaires to School of PMER. The collected data were kept in a locked room of School of PMER premises where only authorized personnel had access.

2.20 HIV Pre and Post-test Counseling and Follow-Up

All the survey participants were informed that they could retrieve their test result at the same site after some time. They were also informed that they could collect their test results by showing the ID card with their survey number that was provided to them by the survey team. Pre- and post-HIV test counseling was provided to the survey participants. They were briefed about the importance of receiving the test result.

CHAPTER 3: SOCIO-DEMOGRAPHIC CHARACTERISTICS

This chapter describes the socio-demographic characteristics of MLMs including both Western Region (n=360) and Mid to Far Western Region (n=360). Since this study include two clusters, the separate analysis was carried out for each of the clusters.

3.1 Birth Place and Current Living Place

Table 3.1 shows the distribution of respondents according to their belongings. As per the protocol, equal numbers of respondents (84) were selected from each of the Syangja, Kaski and Gulmi. A total of 60 and 48 respondents were selected from Palpa and Kapilvastu of the Western Regions respectively. Out of 84 respondents selected from each of the Syangja, Kaski and Gulmi districts, 86.9 percent of the respondents of the Syangja, 95.2 percent of the Kaski and 97.6 percent of the respondents from Gulmi were born in their respective districts. Similarly, 95.8 percent of the respondents of Kapilvastu were born in the same district while cent percent of the respondents from Palpa were born in Palpa.

Similarly, a total of 360 respondents were selected from different selected districts of the Mid to Far Western Region. Number of selected respondents ranged from 36 in Banke to the maximum 108 from Kailali which is indicated in the table 3.1. There is wide variation in the birth place of the respondents where only 44.4 percent of the respondents of the Banke districts were born in the same district and the hundred percent respondents of the Achham districts were born in Achham.

3.1 Number of Respondents by Birth Districts

| Description | Number of migrants interviewed | Migrants Born in the Interviewed district | |
|---------------------------|--------------------------------|---|-------------|
| | | N | % |
| Western | | | |
| Syangja | 84 | 73 | 86.9 |
| Kaski | 84 | 80 | 95.2 |
| Gulmi | 84 | 82 | 97.6 |
| Palpa | 60 | 60 | 100 |
| Kapilvastu | 48 | 46 | 95.8 |
| Total | 360 | 341 | 94.7 |
| Mid to Far Western | | | |
| Banke | 36 | 16 | 44.4 |
| Surkhet | 48 | 31 | 64.6 |
| Achham | 60 | 60 | 100 |
| Doti | 36 | 35 | 97.2 |
| Kailali | 108 | 60 | 55.6 |
| Kanchanpur | 72 | 45 | 62.5 |
| Total | 360 | 247 | 68.6 |

3.2 Socio-Demographic Characteristics

Table 3.2 describes the socio-demographic characteristics of the respondents. Age-wise distribution of the respondents indicate that the highest number of them (25.7%) belonged to age 40 or above, followed by 21 percent were in the early young age (20-24 years). Almost seven percent (6.8%) were adolescents and more than half (51.9%) of them were in the most

productive age of 20-39 years. Comparatively, male labor migrants of the adolescent (<19 years) and young age (20-24 years) represented in this study were more in Western Region (8.3% and 22.2%) than the Mid to Far Western Region (5.3% and 19.7%) respectively. On the contrary, slightly higher proportion of the respondents who had the age of 40 years or above were more in Mid to Far Western Region (26.7%) when it is compared with the Western Region (24.7%). Mean age of the respondent was 32.0±9.1years with the mean age of the respondents who belonged to the Mid to Far Western Region being 32.2±8.8 years as against the mean age 31.7±9.4 years of the respondents of Western Regions.

Table 3.2 Socio-Demographic Characteristics of Respondents

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|--------------|--------------------|--------------|------------|--------------|
| | N | % | N | % | N | % |
| Age G (in years) | | | | | | |
| ≤19 | 30 | 8.3 | 19 | 5.3 | 49 | 6.8 |
| 20-24 | 80 | 22.2 | 71 | 19.7 | 151 | 21.0 |
| 25-29 | 56 | 15.6 | 63 | 17.5 | 119 | 16.5 |
| 30-34 | 48 | 13.3 | 56 | 15.6 | 104 | 14.4 |
| 35-39 | 57 | 15.8 | 55 | 15.3 | 112 | 15.6 |
| 40 or above | 89 | 24.7 | 96 | 26.7 | 185 | 25.7 |
| Mean ±SD | 31.7±9.4 | | 32.2±8.8 | | 32.0 ± 9.1 | |
| Median (IQR) | 31.0(16.0) | | 31.5(16.0) | | 31.0(16) | |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Education | | | | | | |
| Illiterate | 16 | 4.4 | 72 | 20.0 | 88 | 12.2 |
| Literate but no schooling | 15 | 4.2 | 16 | 4.4 | 31 | 4.3 |
| Grade 1-5 | 83 | 23.1 | 89 | 24.7 | 172 | 23.9 |
| Grade 6-9 | 158 | 43.9 | 130 | 36.1 | 288 | 40 |
| SLC and above | 88 | 24.4 | 53 | 14.7 | 141 | 19.6 |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Caste/Ethnic | | | | | | |
| Brahmin/Chhetri | 161 | 44.7 | 126 | 35 | 287 | 39.9 |
| Terai Madhesi | 4 | 1.1 | 2 | 0.6 | 6 | 0.8 |
| Dalit | 71 | 19.7 | 160 | 44.4 | 231 | 32.1 |
| Janajati | 123 | 34.2 | 70 | 19.5 | 193 | 25.8 |
| Muslim | 1 | 0.3 | 2 | 0.6 | 3 | 0.4 |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Marital Status | | | | | | |
| Married | 262 | 72.8 | 308 | 85.6 | 570 | 79.2 |
| Divorced/Permanently/ Separated | 4 | 1.1 | 6 | 1.7 | 10 | 1.4 |
| Widower | 2 | 0.6 | 3 | 0.8 | 5 | 0.7 |
| Never married | 92 | 25.6 | 43 | 11.9 | 135 | 18.8 |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Age at first marriage (in years) | | | | | | |
| < 15 | 1 | 0.4 | 6 | 1.9 | 7 | 1.2 |
| 15-19 | 77 | 28.5 | 148 | 46.7 | 225 | 38.3 |
| 20-24 | 125 | 46.3 | 121 | 38.2 | 246 | 41.9 |
| 25-29 | 58 | 21.5 | 39 | 12.3 | 97 | 16.5 |

| | | | | | | |
|-------------------------|------------|--------------|------------|--------------|------------|--------------|
| 30-34 | 7 | 2.6 | 2 | 0.6 | 9 | 1.5 |
| ≥35 | 2 | 0.7 | 1 | 0.3 | 3 | 0.5 |
| Mean± SD | | 21.8±3.6 | | 20.2±3.3 | | 20.9±3.5 |
| Median (IQR) | | 21(5) | | 20(4) | | 20(5) |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Currently living | | | | | | |
| With wife | 259 | 71.9 | 308 | 85.6 | 567 | 78.6 |
| With male friends | 2 | 0.6 | | | 2 | 0.3 |
| Alone | 3 | 0.8 | | | 3 | 0.4 |
| With parents | 245 | 68.1 | 209 | 58.1 | 454 | 63.1 |
| With children | 211 | 58.6 | 271 | 75.3 | 482 | 66.9 |
| Relatives | 6 | 1.7 | 1 | 0.3 | 7 | 1 |
| Total | 360 | * | 360 | * | 720 | * |

* Percentages total may exceed 100 due to multiple responses

About two out of every five (40%) respondents had 6-9 years of formal schooling and another 23.9 percent of the respondents had primary education of 1- 5 years of schooling. A total of 12.2 percent of the respondents were illiterate, 4.3 percent respondents were literate with no formal schooling and remaining 19.6 percent of the respondents were educated up to school leaving certificate (SLC) level or above. Considerably higher proportions of illiterate respondents (20.0%) were reported from Mid to Far Western Region when compared with the respondents who belongs to Western Region (4.4%). Proportions of the respondents who had 6-9 years of schooling and SLC or above were more in Western Region (43. 9% and 24.4%) than respondents of Mid to Far Western Region (36.1% and 14.7%) respectively. Almost two-fifths of the respondents were Brahmins and Chhetri (39.9%) and this population was more frequently reported from Western Region (44.7%) as against the Mid to Far Western Region (35.0%). Another almost one third (32.1%) of the respondents were Dalits. Proportion of Dalit respondents was more in Mid to Far Western Region than the Western Region (19.7%). Similarly, more than a quarter of the respondents were Janajatis (25.8%) and the proportion of Janajati respondents who belong to Western Region (34.2%) was higher than the respondents of Mid to Far Western Region (19.5%). Some other respondents belonged to other minorities such as Terai Madhesi (0.8%) and Muslim communities (0.4%). Almost four-fifths (79.2%) respondents were ever married whereas 18.8 percent of the respondents were never married. About 1.4 percent respondents were divorced or permanently separated and 0.7 percent was widowers. Proportions of married respondents of the Western Region (72.8%) were lesser than those of respondents who belong to Mid to Far Western Region (Table 3.2).

Slightly more than two- fifths (41.9%) of the respondents had their first marriage at the age of 20-24 years. Nearly two- fifth (38.3%) of the respondents entered into the married life at the age of 15- 19 years. Adolescent marriage was considerably high among the respondents of Mid to Far Western Region (46.7%) when it is compared with the respondents of Western Region (28.5%). Proportion of the respondents who had their first marriage at the age of 20-24 years and 25-29 years was numerically dominant in Western Region (46.3% and 21.5%) than the Mid to Far Western Region (38.2% and 12.3%) respectively. In the meantime, 1.2 percent of the respondents reported that they had got marriage before reaching 15 years of life and 0.5 percent had got marriage after the age of 35 or more years. Mean age of the respondents at their first marriage was 20.9±3.5years and this average age was slightly higher among the respondents of Western Region (21.8±3.6) years than the respondents of Mid to Far Western Region (20.2±3.3years) (Table 3.2).

Living relationship of the respondents indicate that almost four- fifths (78.6%) of them were living with their wives and this relationship was notably higher among the respondents of Mid to Far Western Region (85.6%) when it is compared with the respondents of Western Regions(71.9%). Similarly, 63.1 percent of the respondents reported that they were living with the parents and 66.9 percent of the respondents were living with the children. Living with parent was more common in Western Region (68.1%) while living with the children was more common in Mid to Far Western Region (75.3%). Some respondents were living with relatives (1.0%), with male friend (0.3%) and some (0.4%) others were living alone (Table 3.2).

3.3 Migration History of the MLMs

Table 3.3 reveals the migration destinations of the male labor migrants in India. Nearly half (47.5%) of the respondents stated that Maharastra the major destination for migration. Other major destination for migration are Delhi (36.8%) followed by Himanchal Pradesh (15%), Gujarat (12.9%), Uttar Pradesh (11.9%), Punjab (10%). Other different destinations in India are enlisted in the table 3.3. Major destinations for the migration among the respondents of Western Region were Delhi (30.6%), Himanchal Pradesh (16.9%), Uttar Pradesh (11.95), Hariyana (10.6%), Maharastra (13.1%) and Punjab (10%). Similarly, major destination for migration among the migrants of the Mid to Far Western Region are Maharastra (81.9%), Delhi (43.1%), Gujarat (23.3%), Uttarakhanda (15%), Himanchal Pradesh (13.1%), Uttar Pradesh (11.9%) and Rajasthan (10. 8%). Almost one out of every ten (9.4%) respondents did not know about their destination for migration.

Table 3.3 Migration Destinations of Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|----------------------|---------|------|--------------------|------|-------|------|
| | N | % | N | % | N | % |
| Destination | | | | | | |
| Hariyana | 38 | 10.6 | 22 | 6.1 | 60 | 8.3 |
| Madhya Pradesh | 10 | 2.8 | 2 | 0.6 | 12 | 1.7 |
| Uttarakhanda | 5 | 1.4 | 54 | 15 | 59 | 8.2 |
| Delhi | 110 | 30.6 | 155 | 43.1 | 265 | 36.8 |
| Uttar Pradesh (U.P.) | 43 | 11.9 | 43 | 11.9 | 86 | 11.9 |
| Kerala | 6 | 1.7 | 8 | 2.2 | 14 | 1.9 |
| Gujarat | 9 | 2.5 | 84 | 23.3 | 93 | 12.9 |
| Maharastra | 47 | 13.1 | 295 | 81.9 | 342 | 47.5 |
| Himanchal Pradesh | 61 | 16.9 | 47 | 13.1 | 108 | 15 |
| Panjab | 36 | 10 | 36 | 10 | 72 | 10 |
| West Bengal | 12 | 3.3 | 9 | 2.5 | 21 | 2.9 |
| Assam | 8 | 2.2 | | | 8 | 1.1 |
| Rajasthan | 9 | 2.5 | 39 | 10.8 | 48 | 6.7 |
| Andra Pradesh | 29 | 8.1 | 13 | 3.6 | 42 | 5.9 |
| Karnataka | | | 32 | 8.9 | 32 | 4.4 |
| Bihar | 2 | 0.6 | 21 | 5.8 | 23 | 3.2 |
| Meghalaya | 7 | 1.9 | | | 7 | 1 |
| Don't know | 36 | 10 | 32 | 8.9 | 68 | 9.4 |
| Total | 360 | * | 360 | * | 720 | * |

* Percentages total may exceed 100 due to multiple responses

A large proportion of the respondents (47.4%) stayed in India for more than 36 months. Slightly higher percentage of the respondents who belonged to the Mid to Far Western Region (49.4%) had 37 and more months stay in India when it is compared with the respondents of Western

Region (45.3%). More than one-fifth (21.2%) respondents stayed in India for less than one year, another almost equal (20.6%) had 12-24 months stay in India and 10.8 percent of them stay in India for 25-36 months. Average duration of stay in India by the MLMs was 58.7 months and the respondents of Western Region had longer period of stay (61.7 years) than that of the respondents of Mid to Far Western Region (55.8 years) (Figure 3.1).

Figure 3.1 Duration of Stay of Labor Migrants in India

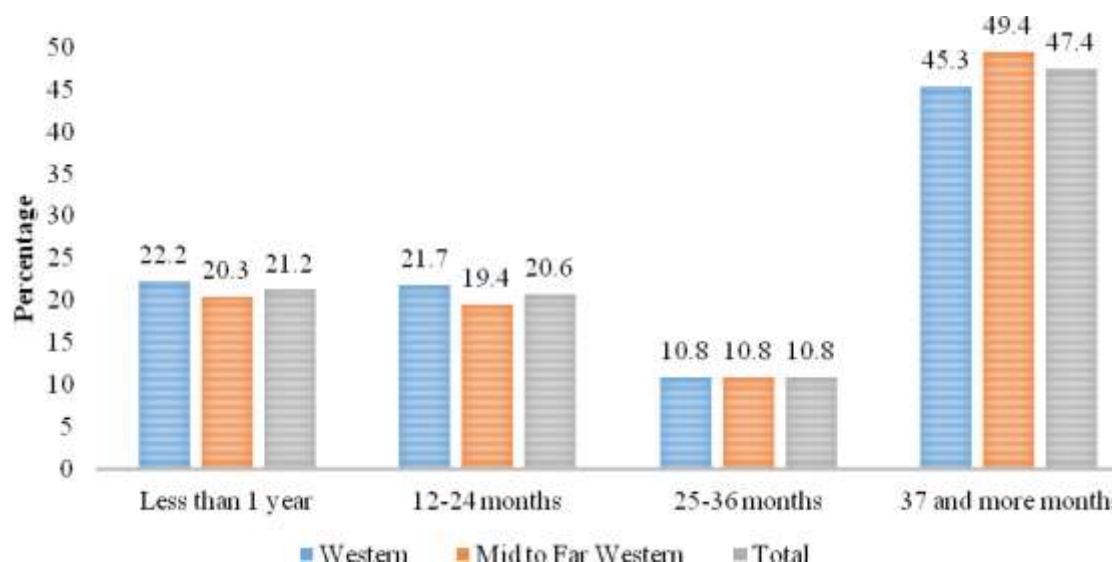


Table 3.4 depicts different characteristics of the male labor migrants like age at first migration, list of returned time, and plan for re-migrate to India, living partnership in India and their income in the last work. More than one-third (35.4%) of the respondents reported that they were migrated to India for the first time when they were of ≤ 19 years old. This early migration practice was almost equal in both the Western Region (34.7%) and Mid to Far Western Region (36.1%). Similarly, 16.8 percent of the respondents had their first migration at the age of 25-29 years of age and 11.4 percent of them were of 35 or more years of age at the time of first migration. Mean age at first migration was 23.6 ± 7.7 and the average age of respondents of Western Region (24.0 ± 7.7 years) at first migration was slightly more than the respondents of Mid to Far Western Region (23.1 ± 7.7 years).

Table 3.4 Male Labor Migrants by Migration Characteristics

| Description | N | Western | | Mid to Far Western | | Total | | |
|---|-----|---------|----------------|--------------------|---|----------------|-----|----------------|
| | | N | % | N | % | N | % | |
| Age at first migration (in years) | | | | | | | | |
| < 20 | 125 | | 34.7 | 130 | | 36.1 | 255 | 35.4 |
| 20-24 | 91 | | 25.3 | 106 | | 29.4 | 197 | 27.4 |
| 25-29 | 63 | | 17.5 | 58 | | 16.1 | 121 | 16.8 |
| 30-34 | 38 | | 10.6 | 27 | | 7.5 | 65 | 9 |
| 35 or above | 43 | | 11.9 | 39 | | 10.8 | 82 | 11.4 |
| Mean \pm SD | | | 24.0 ± 7.7 | | | 23.1 ± 7.7 | | 23.6 ± 7.7 |
| Median (IQR) | | | 22.0(10.0) | | | 21.0(9.0) | | 21.0(10.0) |
| Duration of last time return to Nepal (in months) | | | | | | | | |
| <3 | 86 | | 23.9 | 102 | | 28.3 | 188 | 26.1 |
| 3 – 6 | 62 | | 17.2 | 120 | | 33.3 | 182 | 25.3 |
| 7 – 12 | 55 | | 15.3 | 68 | | 18.9 | 123 | 17.1 |

| | | | | | | |
|---|------------|-----------------|------------|----------------|------------|-----------------|
| 13 – 24 | 81 | 22.5 | 51 | 14.2 | 132 | 18.3 |
| 25-36 | 76 | 21.1 | 19 | 5.3 | 95 | 13.2 |
| Mean ± SD | | 13.0±11.0 | | 8.0±8.0 | | 10.5±10.0 |
| Median(IQR) | | 10.0(4.0) | | 14.0(10.0) | | 9.0(12.0) |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Planning to revisit India | | | | | | |
| Yes | 172 | 47.8 | 251 | 69.7 | 423 | 58.8 |
| No | 149 | 41.4 | 57 | 15.8 | 206 | 28.6 |
| Don't know | 39 | 10.8 | 52 | 14.4 | 91 | 12.6 |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| During last stay in India the respondent lived | | | | | | |
| Alone | 29 | 8.1 | 43 | 11.9 | 72 | 10 |
| With wife | 13 | 3.6 | 18 | 5 | 31 | 4.3 |
| With other woman | | | 1 | 0.3 | 1 | 0.1 |
| With friends | 247 | 68.6 | 243 | 67.5 | 490 | 68.1 |
| With relative | 71 | 19.7 | 55 | 15.3 | 126 | 17.5 |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Monthly income during the last stay in India (NRs) | | | | | | |
| Up to 5000 | 32 | 8.9 | 22 | 6.1 | 54 | 7.5 |
| 5001-10000 | 136 | 37.8 | 127 | 35.3 | 263 | 36.5 |
| 10001-15000 | 103 | 28.6 | 105 | 29.2 | 208 | 28.9 |
| More than15000 | 89 | 24.7 | 106 | 29.4 | 195 | 27.1 |
| Mean ± SD | | 12000.0±5400.0 | | 8000.0±5350.0 | | 12356.0±5400.0 |
| Median(IQR) | | 11000.0(7000.0) | | 8000.0(7900.0) | | 12000.0(8000.0) |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |

Slightly more than half of the respondents (51.4%) reported that they had returned to Nepal within last 6 months. Nearly a quarter (23.9%) and more than one-quarter (28.3%) of the respondents in the Western Region and the Mid to Far Western Region respectively reported the period of their coming back home as less than 3 months prior to the survey. Similarly, (17.2 percent) of the respondents of Western Region and one- third of the respondents who belonged to the Mid to Far Western Region had come back to home during the 3-6 months prior to the survey. Almost three- fifths (58.8%) of the respondents opined that they were planning to revisit to India while 12.6 percent of them remained not determined about revisit to India. Substantially large proportion of the respondents of the Mid to Far Western Region (69.7%) had plan to revisit India when it is compared with the respondents of Western Region (47.8%) (Table 3.4).

This survey shows that majority (68.1%) of the MLMs used to live with friends in India and this living relationship was almost similar among the respondents of both the regions. Similarly, 17.5 percent of the respondents used to live with their relatives, 4.3 percent lived with their family and 10 percent of them used to live alone in India. One of the respondents who belong to the Mid to Far Western Region used to live with women other than their wives. A total of 36.5 percent respondents had monthly income of Nepalese Rupees 5001-10000 followed by another 28.9 percent had monthly earning of 10001- 15000 and 27.1 percent had more than 15000 income in a month. Some (7.5%) of the respondents had monthly income NRs 5000 or less with slight regional variations in the proportion of the respondents with different incomes (Table 3.4).

Table 3.5 Types of Work of Male Labor Migrants in India

| Description | Western | | Mid to Far Western | | Total | |
|-------------------------------|------------|----------|--------------------|----------|------------|----------|
| | N | % | N | % | N | % |
| Types of work | | | | | | |
| Laborer/factory labor | 143 | 39.7 | 324 | 90 | 467 | 64.9 |
| Technician/operator/mechanics | 90 | 25 | 261 | 72.5 | 351 | 48.8 |
| Hotel labor | 134 | 37.2 | 191 | 53.1 | 325 | 45.1 |
| Cook | 69 | 19.2 | 58 | 16.1 | 127 | 17.6 |
| Transport worker | 9 | 2.5 | 24 | 6.7 | 33 | 4.6 |
| Caretaker | 23 | 6.4 | 10 | 2.8 | 33 | 4.6 |
| Fishing | | | 22 | 6.1 | 22 | 3.1 |
| Business | | | 1 | 0.3 | 1 | 0.1 |
| Total | 360 | * | 360 | * | 720 | * |

* Percentages total may exceed 100 due to multiple responses

Most of the male labor migrants (64.9%) used to work as laborer or factory workers in India. About 48.8 percent of the MLMs worked as technician, operators or mechanics and 45.1 percent of them reported that they were the hotel labors. Other reported works done by the respondents in India were cook (17.6%), care taker (4.6%), transport worker (4.6%), Fishing (3.1%) and 0.1 percent were business workers. Sizable large proportion of the respondents who belong to the Mid to Far Western Region reported that they used to engage in aforementioned work except caretaker which is slightly more among the respondents of the Western Region (Table 3.5).

Table 3.6 District Visited and Types of Work Performed by Returnee Migrants in Nepal

| Description | Western | | Mid to Far Western | | Total | |
|---|----------|------------|--------------------|------------|-----------|------------|
| | N | % | N | % | N | % |
| Visited any district in Nepal after returning from India | | | | | | |
| Yes | 4 | 1.1 | 9 | 2.5 | 13 | 1.8 |
| No | 356 | 98.9 | 351 | 97.5 | 705 | 98.2 |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| District migrated to | | | | | | |
| Kathmandu | | | 2 | 22.2 | 2 | 15.4 |
| Kaski | 1 | 25 | | | 1 | 7.7 |
| Palpa | | | 1 | 11.1 | 1 | 7.7 |
| Rupandehi | 2 | 50 | | | 2 | 15.4 |
| Dang | 1 | 25 | | | 1 | 7.7 |
| Banke | | | 1 | 11.1 | 1 | 7.7 |
| Kailali | | | 2 | 22.2 | 2 | 15.4 |
| Kanchanpur | | | 1 | 11.1 | 1 | 7.7 |
| Dadeldhura | | | 1 | 11.1 | 1 | 7.7 |
| Darchula | | | 2 | 22.2 | 2 | 15.4 |
| Total | 4 | * | 9 | * | 13 | * |
| Duration of stay in the district migrated | | | | | | |
| 1-2 months | | | 4 | 44.4 | 4 | 30.8 |
| 3-4 months | 1 | 25 | 2 | 22.2 | 3 | 23.1 |
| More than 4 months | 3 | 75 | 3 | 33.3 | 6 | 46.2 |
| Total | 4 | 100 | 9 | 100 | 13 | 100 |

Types of work in Nepal

| | | | | | | |
|----------------|----------|----------|----------|----------|-----------|----------|
| Hotel Labor | 1 | 25 | 1 | 11.1 | 2 | 15.4 |
| Daily Labor | 1 | 25 | 5 | 55.6 | 6 | 46.2 |
| Cook | 2 | 50 | | | 2 | 15.4 |
| Small Business | | | 2 | 22.2 | 2 | 15.4 |
| Carpenter | | | 2 | 22.2 | 2 | 15.4 |
| Total | 4 | * | 9 | * | 13 | * |

* Percentages total may exceed 100 due to multiple responses

After returning back to Nepal, 1.8 percent of the respondents had visited to the different parts of Nepal and this movement was slightly higher among the respondents of Mid to Far Western Region (2.5%) than those respondents who belong to Western Region (1.1%). Out of those who visited in different parts of Nepal, 15.4 percent of them visited in each of the Kathmandu, Rupandehi, Kailali and Darchula. Movement of the returnee migrants who belong to the Mid to Far Western Region was more frequent than those of Western Region. Other places visited by returnee migrants including their respective frequencies are indicted in table 3.6. Out of those who had intra-country migration in Nepal, 46.2 percent of them stayed in the places of migration for more than 4 months followed by 30.8 percent had 1-2 months stay and 23.1 percent had 3-4 month's duration of stay (Table 3.6).

Hundred percent of the respondents of the Western Region had longer duration of stay for 3 or more months whereas (44.4%) of the respondents of the Mid to Far Western Region had short duration of 1-2 months stay while at the time of migration in Nepal. Amongst those who were internally migrated in Nepal for work, 46.2 percent of them were daily labors and others had worked as hotel labors, cook, small business workers and carpenters with equal proportion of respondents being in each of the worker's category (15.4%) (Table 3.6).

CHAPTER 4: PREVALENCE OF HIV AND ITS ASSOCIATION WITH BACKGROUND CHARACTERISTICS OF MLMs

Prevalence of HIV infection along with the association between background characteristics of Male Labor Migrants and HIV has been presented in this chapter.

4.1 Prevalence of HIV

HIV prevalence among MLMs was determined in this survey using standard diagnostic protocol of the NCASC. This survey revealed that prevalence of HIV infection among MLMs was 0.4 percent. A total of two MLMs in Mid to Far Western Region and one MLM in Western Region were diagnosed as having HIV infection. Although, the number of HIV positives identified in the Mid to Far Western Region were more than that was identified in Western Region, the difference was not statistically significant ($p=1.0$).

Table 4.1 HIV Prevalence by study Regions

| Description | Western* | | Mid to Far Western** | | Total | | P value |
|-------------------|------------|------------|----------------------|------------|------------|------------|---------|
| | N | % | N | % | N | % | |
| HIV status | | | | | | | |
| Positive | 1 | 0.3 | 2 | 0.6 | 3 | 0.4 | 1.0 |
| Negative | 359 | 99.7 | 358 | 99.4 | 717 | 99.6 | |
| Total | 360 | 100 | 360 | 100 | 720 | 100 | |

* *Kapilvastu, Gulmi, Syangja, Palpa and Kaski Districts*

** *Achham, Doti, Kailali, Kanchanpur, Surkhet and Banke Districts*

4.2 Relationship between Socio-Demographic Characteristics and HIV Infection

Relationship between HIV infection and socio-demographic and behavioral characteristics of Male Labor Migrants was examined in this survey (table 4.2). Prevalence of HIV infection proportion was higher among the respondents who were of 25 years or more (0.4%) than the respondents who were below 25 years old (0.0%) in Western Region. Similar kinds of differences were observed among the respondents of the Mid to Far Western Region. Higher proportion of the respondents who had formal education was diagnosed as having HIV infection (0.3%) in Western Region when it is compared with illiterate respondents of the same Region (0.0%). On the contrary, respondents who had no formal education or those who were illiterate had higher prevalence of HIV infection (2.3%) than that was observed among those respondents who had formal education in Mid to Far Western Region (0.0%). Never married respondents of the Western Region had higher proportion of HIV infection as against those ever married respondents of the same region. As against this, ever married MLMs had higher prevalence of HIV infection (0.6%) in the Mid to Far Western Region.

HIV infection was diagnosed among Janajati respondents (0.8%) of the Western Region as against the respondents of other castes who did not have HIV infection. On the other hand, HIV infection was reported among Dalit respondents (1.2%) of the Mid to Far Western Region whereas none of the respondents who belonged to other caste had HIV infection. All of those respondents who were identified as HIV positive, had ever had sex with FSWs in India and none of the respondents who had never had sex with FSWs did not have HIV infection (Table 4.2).

Table 4.2 Relationship between Socio-Demographic Characteristics and HIV Infection

| Description | N | Western | | | Mid to Far Western | | | P value |
|---------------------------------------|------------|----------|------------|---------|--------------------|----------|------------|---------|
| | | HIV+ | % | P value | N | HIV+ | % | |
| Age (in years) | | | | | | | | |
| < 25 | 110 | 0 | 0 | 1.0 | 90 | 0 | 0 | 1.0 |
| ≥25 | 250 | 1 | 0.4 | | 270 | 2 | 0.7 | |
| Total | 360 | 1 | 0.4 | | 360 | 2 | 0.7 | |
| Literacy | | | | | | | | |
| Illiterate/no schooling | 31 | 0 | 0 | 1.0 | 88 | 2 | 2.3 | 1.0 |
| Formal schooling | 329 | 1 | 0.3 | | 272 | 0 | 0 | |
| Total | 360 | 1 | 0.4 | | 360 | 2 | 0.7 | |
| Marital status | | | | | | | | |
| Ever married | 268 | 0 | 0 | 1.0 | 317 | 2 | 0.6 | 1.0 |
| Never married | 92 | 1 | 1.1 | | 43 | 0 | 0 | |
| Caste/Ethnic | | | | | | | | |
| Brahmin/Chhetri | 161 | 0 | 0 | | 126 | 0 | 0 | |
| TeraiMadhesi | 4 | 0 | 0 | NA | 2 | 0 | 0 | NA |
| Dalit | 71 | 0 | 0 | | 160 | 2 | 1.2 | |
| Janajati | 123 | 1 | 0.8 | | 70 | 0 | 0 | |
| Muslim | 1 | 0 | 0 | | 2 | 0 | 0 | |
| Total | 360 | 1 | 0.4 | | 360 | 2 | 0.7 | |
| Ever had sex with FSW in India | | | | | | | | |
| Yes | 31 | 1 | 3.2 | 1.0 | 49 | 2 | 4.1 | 1.0 |
| Never had sex with FSW in India | 329 | 0 | 0 | | 311 | 0 | 0 | |
| Total | 360 | 1 | 0.3 | | 360 | 2 | 0.6 | |
| Visited Sites | | | | | | | | |
| Maharashtra (Mumbai) | 360 | 1 | 0.3 | NA | | | | NA |
| Uttar Pradesh (UP) | | | | | 360 | 2 | 0.6 | |
| Total | 360 | | | | | | | |

CHAPTER 5: SEXUAL BEHAVIORS AND CONDOM USE AMONG MALE LABOR MIGRANTS

This chapter describes the sexual behaviors of MLMs, including sexual contact with spouse, girlfriend and FSWs in Nepal and India. Male Labor Migrants were asked series of questions related to their sexual behaviors. This section presents the general findings of the study regarding sexual behaviors of the MLMs.

5.1 Sexual Behavior of MLMs

More than nine out of every ten MLMs (91.1%) had ever had sex with female and this experience was slightly higher among the respondents of Mid to Far Western Region (93.9%) than those of respondents of Western Region (88.3%). More than half (54.3%) of the respondents had first sexual contact before 20 years of age with 3.4 percent of the respondents being less than 15 years old at the time of first sex. Early entry into the sexual life (15-19 years of age) is more frequent among the respondents of Mid to Far Western Region (56.2%) when it is compared with the respondents of Western Region (45.3%) (Table 5.1).

Table 5.1 Sexual Behavior of Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Ever had sex with a female | | | | | | |
| Yes | 318 | 88.3 | 338 | 93.9 | 656 | 91.1 |
| No | 42 | 11.7 | 22 | 6.1 | 64 | 8.9 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Age at first sex (in years) | | | | | | |
| <15 | 8 | 2.5 | 14 | 4.1 | 22 | 3.4 |
| 15-19 | 144 | 45.3 | 190 | 56.2 | 334 | 50.9 |
| 20-24 | 117 | 36.8 | 106 | 31.4 | 223 | 34 |
| 25-29 | 44 | 13.8 | 27 | 8 | 71 | 10.8 |
| 30 or above | 5 | 1.6 | 1 | 0.3 | 6 | 0.9 |
| Mean ± SD | | 20.3±4.0 | | 19.2±3.0 | | 19.7±3.5 |
| Median(IQR) | | 20(4.0) | | 18.0(4.0) | | 19.0(4.0) |
| Total | 318 | 100 | 338 | 100 | 656 | 100 |
| Ever had sex with Female sex workers | | | | | | |
| Yes | 49 | 15.4 | 66 | 19.5 | 115 | 17.5 |
| No | 269 | 84.6 | 272 | 80.5 | 541 | 82.5 |
| Total | 318 | 100 | 338 | 100 | 656 | 100 |

More than one-third of the respondents (34%) had first sexual contact at the age of 20-24 years and another 10.8 percent had experience of first sexual contact at the age of 25-29 years. Mean age of the respondents at the sex was 19.7±3.5 years which was slightly lower among the respondents of Mid to Far Western Region (19.2 ±3.0 years) than the respondents who belong to Western Region (20.3±4.0 years). A total of 17.5 percent of the respondents had ever had sex with female sex workers and this proportion was slightly more among the respondents of Mid to Far Western Region (19.5%) than those respondents of the Western Region (15.4%) (Table 5.1).

5.2 Sexual Practice of MLMs in Nepal

Almost 8.0 percent of the respondents had ever had sex with FSWs in Nepal and this proportion was slightly more among the respondents of Mid to Far Western Region (8.6%) as against the 6.9 percent of the respondents of the Western Region. Almost 36 percent of the respondents who had ever had sexual contact with FSWs in Nepal had this relationship with more than five FSWs and this practice was also equal among the respondents of both the regions (~36.0%). More than one-third (33.9%) of the respondents had sexual relation with 2-3 FSWs and almost one-fifth (19.6%) of them had sex with one FSW. More than a quarter of the respondents who belong to Mid to Far Western Region had sex with only one FSW whereas 12 percent of the respondents of Western Region had sex with one FSW. Mean number of FSWs with whom MLMs had sexual contact were 4.5 ± 4.0 . Average number of FSWs with whom MLMs had sexual contacts as reported by the respondents of Western Region (5.0 ± 9.0) was considerably more than that was reported by the MLMs of Mid to Far Western Region (4.9 ± 9.0) (Table 5.2).

Table 5.2 Sexual Behavior of Male Labor Migrations with FSWs in Nepal

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|---------------|--------------------|---------------|------------|---------------|
| | N | % | N | % | N | % |
| Ever had sex with FSWs in Nepal | | | | | | |
| Yes | 25 | 6.9 | 31 | 8.6 | 56 | 7.8 |
| No | 24 | 6.7 | 35 | 9.7 | 59 | 8.2 |
| Never had sex with sex worker | 269 | 74.7 | 272 | 75.6 | 541 | 75.1 |
| Never had sex with female | 42 | 11.7 | 22 | 6.1 | 64 | 8.9 |
| Total | 360 | 100.0 | 360 | 100.0 | 720 | 100.0 |
| Total number of FSWs visited in Nepal | | | | | | |
| 1 | 3 | 12 | 8 | 25.8 | 11 | 19.6 |
| 2 – 3 | 11 | 44 | 8 | 25.8 | 19 | 33.9 |
| 4 – 5 | 2 | 8 | 4 | 12.9 | 6 | 10.7 |
| > 5 | 9 | 36 | 11 | 35.5 | 20 | 35.7 |
| Mean | | 5.0 ± 9.0 | | 4.9 ± 9.0 | | 4.5 ± 4.0 |
| Total | 25 | 100 | 31 | 100 | 56 | 100 |

5.3 Condom Use with FSWs in Nepal

Information related to the condom use practices of MLMs during sex with FSWs in Nepal was assessed in this survey. It was reported that more than half (55.4%) of the respondents who had sex with FSWs had used condom during last sex. Almost two-third (64.0%) of the MLMs of Western Region and nearly half (48.4%) of the MLMs of Mid to Far Western Region who had sex with FSWs in Nepal had used condoms in the last sex. Hundred percent MLMs of Western Region and 80 percent MLMs of Mid to Far Western Region had used the condom in the last sexual intercourse with FSWs in their own decision.

Nearly two-fifths(39.3%) of the respondents had used condoms consistently when they had sex with FSWs in the past one year in Nepal and this practice was considerably higher among the respondents of Western Region (48.0%) than the respondents of Mid to Far Western Region (32.3%) (Table 5.3).

Table 5.3 Condom Use by MLMs with FSWs in Nepal

| Description | Western | | Mid to Far Western | | Total | |
|---|-----------|--------------|--------------------|--------------|-----------|--------------|
| | N | % | N | % | N | % |
| Use of condom during the last sex with FSWs in Nepal | | | | | | |
| Yes | 16 | 64.0 | 15 | 48.4 | 31 | 55.4 |
| No | 9 | 36.0 | 16 | 51.6 | 25 | 44.6 |
| Total | 25 | 100.0 | 31 | 100.0 | 56 | 100.0 |
| Suggested to use condom during last sex | | | | | | |
| Myself | 16 | 100.0 | 12 | 80.0 | 28 | 90.3 |
| FSW | | | 3 | 20.0 | 3 | 9.7 |
| Total | 16 | 100.0 | 15 | 100.0 | 31 | 100.0 |
| Reason for not using condom at last sex | | | | | | |
| Not available | 4 | 44.4 | 2 | 12.5 | 6 | 24.0 |
| I didn't like to use it | 4 | 44.4 | 11 | 68.8 | 15 | 60.0 |
| Didn't think it was necessary | 1 | 11.1 | 3 | 18.8 | 4 | 16.0 |
| Didn't think of it | 3 | 33.3 | | | 3 | 12.0 |
| Total | 9 | 100.0 | 16 | 100.0 | 25 | 100.0 |
| Consistent use of condom in the past year with FSW | | | | | | |
| All the time | 12 | 48.0 | 10 | 32.3 | 22 | 39.3 |
| Most of the time | 3 | 12.0 | | | 3 | 5.4 |
| Sometimes | 1 | 4.0 | 3 | 9.7 | 4 | 7.1 |
| Rarely | 3 | 12.0 | 9 | 29.0 | 12 | 21.4 |
| Never | 6 | 24.0 | 9 | 29.0 | 15 | 26.8 |
| Total | 25 | 100.0 | 31 | 100.0 | 56 | 100.0 |
| Reason for not using condom always | | | | | | |
| Not available | 6 | 46.2 | 3 | 14.3 | 9 | 26.5 |
| Too expensive | 1 | 7.7 | | | 1 | 2.9 |
| I didn't like to use it | 5 | 38.5 | 11 | 52.4 | 16 | 47.1 |
| Didn't think it was necessary | 4 | 30.8 | 7 | 33.3 | 11 | 32.4 |
| Didn't think of it | 3 | 23.1 | | | 3 | 8.8 |
| Total | 13 | 100.0 | 21 | 100.0 | 34 | 100.0 |

5.4 Sexual Contact with Spouse and Condom Use

More than three-quarters (75.7%) of the respondents reported that they had sexual relationship with their wives in the past one month and the proportion of respondents who had sex with wife in the past one months were higher in Mid to Far Western Region (83.3%) than those respondents of Western Region (68.1%). More than one-fifth of the respondents were unmarried or single; and the proportion of those who were single were more (27.2%) among the respondents of the Western Region than those of Mid to Far Western Regions (14.4%) (Table 5.4).

Only 12.7 percent of the respondents had used condom during the last sex with wife and this practice varied marginally between two regions (13.5% in Western Region and 12.0 percent in Mid to Far Western Region). Out of those who had used condom during the sex with wife in the last sex, 94.2 percent of them did so with their own efforts and 5.8 percent of the respondents used condom on the suggestion of their wives. Only 7.2 percent of the respondents used condom consistently during the sex with wife in the past year whereas majority of them

(65.6%) had never used condoms in same sexual relations. Consistent use of condom was slightly more common among the respondents of Western Region (9.9%) than those respondents of the Mid to Far Western Region (4.9%) (Table 5.4).

About three-quarters of the respondents (74.2%) had kept sexual contact with wife for more than five times in the past one month and this practice was more common among the respondents of Mid to Far Western Region (83.4%) than those of Western Region (63.4%). Similarly, 11.1 percent of the respondents had kept 4-5 times sexual contacts with wife in the past one month and 8.8 percent of them did so for 2-3 times. One percent of the respondents had single time sexual contact and 4.4 percent of them did not have sex with wife in the past one month. In the last one month, frequency of sexual contacts with the wife ranged from zero to as much as seventy times. The average numbers of episodes of sexual contacts were 15.6 times, which was lower than that was reported among the respondents of Mid to Far Western Region (18.9 times) and higher than that was reported by the respondents of Western Region (11.8 times) (Table 5.4).

Table 5.4 Sexual Behavior of MLMs and Condom Use by Them with their Spouses in Nepal

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Had sex with wife in the past one month | | | | | | |
| Yes | 245 | 68.1 | 300 | 83.3 | 545 | 75.7 |
| No | 17 | 4.7 | 8 | 2.2 | 25 | 3.5 |
| Currently not married/single | 98 | 27.2 | 52 | 14.4 | 150 | 20.8 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Use of condom during last sex with wife | | | | | | |
| Yes | 33 | 13.5 | 36 | 12 | 69 | 12.7 |
| No | 212 | 86.5 | 264 | 88 | 476 | 87.3 |
| Total | 245 | 100 | 300 | 100 | 545 | 100 |
| Person to suggest the use of condom during last sex | | | | | | |
| Myself | 32 | 97 | 33 | 91.7 | 65 | 94.2 |
| My wife | 1 | 3 | 3 | 8.3 | 4 | 5.8 |
| Total | 33 | 100 | 36 | 100 | 69 | 100 |
| Consistent use of condom with wife in the past year | | | | | | |
| All the time | 26 | 9.9 | 15 | 4.9 | 41 | 7.2 |
| Most of the time | 14 | 5.3 | 11 | 3.6 | 25 | 4.4 |
| Some times | 27 | 10.3 | 50 | 16.2 | 77 | 13.5 |
| Rarely | 32 | 12.2 | 21 | 6.8 | 53 | 9.3 |
| Never | 163 | 62.2 | 211 | 68.5 | 374 | 65.6 |
| Total | 262 | 100 | 308 | 100 | 570 | 100 |
| Frequency of sex with wife in the past one months | | | | | | |
| 0 | 17 | 6.5 | 8 | 2.6 | 25 | 4.4 |
| 1 | 5 | 1.9 | 2 | 0.6 | 7 | 1.2 |
| 2 – 3 | 41 | 15.6 | 9 | 2.9 | 50 | 8.8 |
| 4 – 5 | 33 | 12.6 | 30 | 9.7 | 63 | 11.1 |
| More than 5 | 166 | 63.4 | 257 | 83.4 | 423 | 74.2 |
| Don't remember' | | | 2 | 0.6 | 2 | 0.4 |
| Mean | | 11.8 | | 18.9 | | 15.6 |
| Range | | 0-60 | | 0-70 | | 0-70 |

| | | | | | | |
|--------------|------------|------------|------------|------------|------------|------------|
| Total | 262 | 100 | 308 | 100 | 570 | 100 |
|--------------|------------|------------|------------|------------|------------|------------|

5.5 Sexual Contact with Girlfriend and Condom Use in Nepal

Table 5.5 shows the sexual behavior of MLMs and their condom use practices during sex with girlfriend in Nepal. More than 11.0 percent of the respondents had sexual contact with the girlfriend in the past one year. Percentage of the respondents who had sex with girlfriend in the past one year were considerably higher in the Western Region (16%) than the Mid to Far Western Region (7.4%). About four out of every five (80.5%) respondents reported that they did not have any girlfriend in Nepal (Table 5.5).

Out of those MLMs who had sex with their girlfriends, more than three-fifths (61.3%) of them had used condom during the last sex. Condom use during last sex with girlfriend was higher among the respondents of Western Region (64.7%) than the respondents of the Mid to Far Western Region (54.2%). Out of those respondents who used condoms in the last sex with their girlfriend, a great majority of them did so with their conscience knowledge (95.7%) and remaining 4.3 used condom as suggested by their girlfriends.

Nearly 45 percent of the respondents had used condom consistently during all the sexual contacts with their girlfriends in the past one year and this practice was better among the respondents of Western Region (47.1%) when it is compared with the respondents of the Mid to Far Western Region (41.7%). On the other hand, 21.3 percent of the respondents had never used condom while at the time of sex with the girlfriend in the past one year. A total of 29.3 percent respondents had not kept any sexual contact with their girlfriends in the past one year (Table 5.5).

More than a quarter (26.7%) of the respondents had sexual contact with their girlfriends for 2-3 times in the past one year followed by 16 percent had sexual relationship for one time only. Almost 15 percent of the respondents had more than five times sexual contacts with their girlfriends in past one year where this practice was reported to be more frequently among respondents of Mid to Far Western Region (20.8%) than the Western Region (11.8%) (Table 5.5).

Proportion of the respondents who had two or more times sexual contact with girlfriend in the past one year was higher among those respondents who belonged to Mid to Far Western Region than those respondents of the Western Region (Table 5.5).

Table 5.5 Sexual Behavior of Male Migrants and Condom Use by them with Girlfriends in Nepal

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Had sex with girlfriend in the past year | | | | | | |
| Yes | 51 | 16 | 24 | 7.1 | 75 | 11.4 |
| No | 41 | 12.9 | 12 | 3.6 | 53 | 8.1 |
| Never had girlfriend in Nepal | 226 | 71.1 | 302 | 89.3 | 528 | 80.5 |
| Total | 318 | 100 | 338 | 100 | 656 | 100 |
| Use of condom during last sex with girl friend | | | | | | |
| Yes | 33 | 64.7 | 13 | 54.2 | 46 | 61.3 |
| No | 18 | 35.3 | 11 | 45.8 | 29 | 38.7 |
| Total | 51 | 100 | 24 | 100 | 75 | 100 |
| Person to suggest the use of condom during last sex | | | | | | |

| | | | | | | |
|--|-----------|------------|-----------|------------|-----------|------------|
| Myself | 31 | 93.9 | 13 | 100 | 44 | 95.7 |
| My girlfriend | 2 | 6.1 | | | 2 | 4.3 |
| Total | 33 | 100 | 13 | 100 | 46 | 100 |
| Consistent use of condom with girlfriend in the past year | | | | | | |
| All the time | 24 | 47.1 | 10 | 41.7 | 34 | 45.3.7 |
| Most of the time | 12 | 23.5 | 2 | 8.3 | 14 | 18.7 |
| Sometimes | 8 | 15.7 | 3 | 12.5 | 11 | 14.7 |
| Never | 7 | 13.7 | 9 | 37.5 | 16 | 21.3 |
| Total | 51 | 100 | 24 | 100 | 75 | 100 |
| Frequency of sex with girlfriend in the past one year | | | | | | |
| 0 | 16 | 31.4 | 6 | 25 | 22 | 29.3 |
| 1 | 12 | 23.5 | | | 12 | 16 |
| 2 – 3 | 11 | 21.6 | 9 | 37.5 | 20 | 26.7 |
| 4 – 5 | 6 | 11.8 | 4 | 16.7 | 10 | 13.3 |
| More than 5 | 6 | 11.8 | 5 | 20.8 | 11 | 14.7 |
| Mean | | 2.3 | | 4 | | 2.8 |
| Ranges | | 0-12 | | 0-17 | | 0-17 |
| Total | 51 | 100 | 24 | 100 | 75 | 100 |

5.6 Sexual Contact with FSWs in India

Table 5.6 describes the sexual involvement of MLMs with the FSWs while they were in India. More than 11 percent of the respondents had ever had sex with FSWs in India. Three-quarters (75.1%) of the respondents had never had sex with FSWs and 8.9 percent of them had never had sex with female. Sexual involvement of the respondents with FSWs who belonged to the Mid to Far Western Region was comparatively higher (13.6%) than that that was prevalent among the respondents of the Western Region (8.6%). Among those respondents who had sex with FSWs in India, 36.2 percent of them had sex with more than 5 FSWs and this involvement was remarkably higher among the respondents of Western Region (48.4%) as against those respondents of Mid to Far Western Region (28.6%). A quarter of the respondents (25.0%) had sex with one female sex worker, 27.5 percent had sex with 2-3 FSWs and 11.2 percent of them had sex with 4-5 FSWs in India. In an average, MLMs had sex with 5.7 ± 6.0 FSWs while they were in India. MLMs who belonged to the Western Region had sexual contact with the 8.5 ± 8.0 FSWs in India, which is considerably higher than that was reported among the respondents of the Mid to Far Western Region (4.0 ± 3.0).

Table 5.6 Sexual Behavior of Male Labor Migrants with FSWs in India

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Ever had sex with FSWs | | | | | | |
| Yes | 31 | 8.6 | 49 | 13.6 | 80 | 11.1 |
| No | 18 | 5 | 17 | 4.7 | 35 | 4.9 |
| Never had sex with sex worker | 269 | 74.7 | 272 | 75.6 | 541 | 75.1 |
| Never had sex with female | 42 | 11.7 | 22 | 6.1 | 64 | 8.9 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Total number of FSWs visited in Lifetime | | | | | | |
| 1 | 3 | 9.7 | 17 | 34.7 | 20 | 25 |
| 2 – 3 | 9 | 29 | 13 | 26.5 | 22 | 27.5 |
| 4 – 5 | 4 | 12.9 | 5 | 10.2 | 9 | 11.2 |

| | | | | | | |
|--------------|-----------|------------|-----------|------------|-----------|------------|
| More than 5 | 15 | 48.4 | 14 | 28.6 | 29 | 36.2 |
| Mean±SD | | 8.5±8.0 | | 4.0±3.0 | | 5.7±6.0 |
| Median (IQR) | | 5.0(9.0) | | 3.0(5.0) | | 3.0(7.0) |
| Total | 31 | 100 | 49 | 100 | 80 | 100 |

5.7 Sexual Contact with FSWs and Condom Use in India

As indicated in the table 5.7, 5.8 percent of the respondents had sex with FSWs in the past one year and this involvement was almost similar among the respondents of Western Region (6.1%) and Mid to Far Western Region (5.6%). Less than half (45.2%) of the MLMs had used condom during the last sex with FSWs in India while 75.1 percent of the respondents had never had sex with FSWs in India. Use of condom while at the time of sex with FSWs was considerably higher among the respondents of Western Region (63.6%) when it is compared with the respondents of the Mid to Far Western Region (25.0%). Almost nine out of every ten respondents (89.5%) who used condom in the last sex had done the same through their own conscience knowledge and another 10.5 percent of the respondents used condom with the suggestion of FSWs. Condom use in the last episode of sex with FSW was higher among those respondents of the Western Region (92.9%) who had made decision to use condom themselves than those respondents of Mid to Far Western Region who did so (80%). A total of 72.7 percent of the respondents had used condom consistently in all the episodes of sex with FSWs in the past one year and this practice was more prevalent among the respondents of Western Region (80%) than the respondents of Mid to Far Western Region (57.1%). Out of those who did not use condom at the time of sex with FSWs, 83.3 percent did not use the same due to unavailability of condoms and 50 percent of them did not think of using condom.

Table 5.7 Sexual Behavior of Male Labor Migrants and Condom Use by them with FSWs in India

| Description | Western | | Mid to Far Western | | N | Total % |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | | |
| Had sex with FSW in the past year | | | | | | |
| Yes | 22 | 6.1 | 20 | 5.6 | 42 | 5.8 |
| No | 9 | 2.5 | 29 | 8.1 | 38 | 5.3 |
| Never had sex workers in India | 18 | 5 | 17 | 4.7 | 35 | 4.9 |
| Never had sex with sex worker | 269 | 74.7 | 272 | 75.6 | 541 | 75.1 |
| Never had sex with female | 42 | 11.7 | 22 | 6.1 | 64 | 8.9 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Use of condom during the last sex with FSW | | | | | | |
| Yes | 14 | 63.6 | 5 | 25 | 19 | 45.2 |
| No | 1 | 4.5 | 2 | 10 | 3 | 7.1 |
| Never used condom | 7 | 31.8 | 13 | 65 | 20 | 47.6 |
| Total | 22 | 100 | 20 | 100 | 42 | 100 |
| Person to suggest the use of condom during last sex | | | | | | |
| Myself | 13 | 92.9 | 4 | 80 | 17 | 89.5 |
| FSW | 1 | 7.1 | 1 | 20 | 2 | 10.5 |
| Total | 14 | 100 | 5 | 100 | 19 | 100 |
| Consistent use of condom with FSW in the past year | | | | | | |
| All the time | 12 | 80 | 4 | 57.1 | 16 | 72.7 |
| Most of the time | 3 | 20 | | | 3 | 13.6 |
| Rarely | | | 1 | 14.3 | 1 | 4.5 |
| Never | | | 2 | 28.6 | 2 | 9.1 |

| | | | | | | |
|--|-----------|------------|----------|------------|-----------|------------|
| Total | 15 | 100 | 7 | 100 | 22 | 100 |
| Reasons for not using condom always | | | | | | |
| Not available | 2 | 66.7 | 3 | 100 | 5 | 83.3 |
| Didn't think of it | 3 | 100 | | | 3 | 50.0 |
| Total | 3 | * | 3 | * | 6 | * |

* Percentages total may exceed 100 due to multiple responses

5.8 Sexual Contact with Girlfriends and Condom Use in India

In total, 4.3 percent of the MLMs had sex with their girlfriends in the past one year in India. Proportion of the respondents of Western Region who had sex with girlfriend (6.0%) was higher than that of Mid to Far Western Region (2.7%). A total of 71.4 percent respondents who had sex with girlfriend had used condom during the last sexual intercourse. This condom use practice was better among the respondents of Mid to Far Western Region (77.8%) than the Western Region (68.4%). In the past one year's sexual contact with girlfriend, nine out of every ten respondents had used condom being self-conscious about the utility of condom and rest one out of every ten respondents used condom with the suggestion of girlfriend. Consistent condom use was slightly higher (55.6%) among the respondents of Mid to Far Western Region when it is compared with the practices prevalent among the respondents of Western Region (52.6%). More than 14 percent of respondents had never used a condom while having sex with girlfriend in the past year. Reasons for the not using condom and the respective proportion of the respondents are as shown below in the table 5.8.

Table 5.8 Sexual Contact with Girlfriends and Condom Use in India

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|--------------|--------------------|--------------|------------|--------------|
| | N | % | N | % | N | % |
| Had sex with girlfriend in the past year | | | | | | |
| Yes | 19 | 6.0 | 9 | 2.7 | 28 | 4.3 |
| No | 21 | 6.6 | 22 | 6.5 | 43 | 6.6 |
| Never had girlfriend in India | 278 | 87.4 | 307 | 90.8 | 585 | 89.2 |
| Total | 318 | 100.0 | 338 | 100.0 | 656 | 100.0 |
| Use of condom during last sex with girl friend | | | | | | |
| Yes | 13 | 68.4 | 7 | 77.8 | 20 | 71.4 |
| No | 6 | 31.6 | 2 | 22.2 | 8 | 28.6 |
| Total | 19 | 100.0 | 9 | 100.0 | 28 | 100.0 |
| Person to suggest the use of condom during last sex | | | | | | |
| Myself | 13 | 100.0 | 5 | 71.4 | 18 | 90.0 |
| Girlfriend | | | 2 | 28.6 | 2 | 10.0 |
| Total | 13 | 100.0 | 7 | 100.0 | 20 | 100.0 |
| Consistent use of condom with girlfriend in the past year | | | | | | |
| All the time | 10 | 52.6 | 5 | 55.6 | 15 | 53.6 |
| Most of the time | 2 | 10.5 | 1 | 11.1 | 3 | 10.7 |
| Sometimes | 3 | 15.8 | 2 | 22.2 | 5 | 17.9 |
| Rarely | 1 | 5.3 | | | 1 | 3.6 |
| Never | 3 | 15.8 | 1 | 11.1 | 4 | 14.3 |
| Total | 19 | 100.0 | 9 | 100.0 | 28 | 100.0 |
| Reason for not using condom always | | | | | | |
| Not available | 3 | 33.3 | 2 | 50.0 | 5 | 38.5 |
| Partner objected | 1 | 11.1 | | | 1 | 7.7 |

| | | | | | | |
|-------------------------------|----------|--------------|----------|--------------|-----------|--------------|
| I didn't like to use it | 2 | 22.2 | 1 | 25.0 | 3 | 23.1 |
| Didn't think it was necessary | 3 | 33.3 | | | 3 | 23.1 |
| Didn't think of it | 2 | 22.2 | 1 | 25.0 | 3 | 23.1 |
| Total | 9 | 100.0 | 4 | 100.0 | 13 | 100.0 |

5.9 Availability of Condom

As indicated in table 5.9, 21 percent of the respondents always used to carry condoms for each of the sexual relationship. Condom carrying practice was slightly higher among the respondents of Western Region (24.4%) than those respondents of the Mid to Far Western Region (17.5%). More than seven out of every ten (71.4%) respondents availed condoms from Health Post/Primary Health Care Centre and 55.3 percent of them accessed from pharmacy. Other different sources of availability of condom were Hospital (22.4%), Private Clinic (15.6%), Female Community Health Volunteers (14%), General Retail Store (7.6%), Health workers (5%), Clinic of Family Planning Association of Nepal (4%), Pan Shop (1%), Hotel (0.7%), NGO (0.7%) and Brothel (0.6%).

Altogether, 18.2 percent of the respondents obtained condom free of cost, 15.7 percent purchased the condom and another 19.4 percent of them availed condom through both by purchasing and free of cost. A large number of respondents (46.7%) had never used the condom. More than nine out of every ten respondents had accessed condoms from Health Post/Primary Health Care Centre (90.4%), 15.9 percent get the same from peers/friends, 15.1 percent get condoms from FCHVs, 12.2 percent got it from hospitals, 3.3 percent availed from FPAN clinic and 1.5 percent received form health workers.

Amongst those who accessed condoms, four- fifths of them (81.9%) opined that Health Post/Primary Health Care Centre (PHCC) is the most convenient to them to avail condoms. Other convenient places to avail condoms are FCHVs (22.9%), Hospital (18.1%), Peers/friends (15.5%), Health workers (2.2%), FPAN clinic (1.5%) and community programs (1.1%). Comparatively, higher proportion of respondents of the Western Region opined that Health Post/PHCC (93.9%) are convenient place to access condom when it is compared with the respondents of the Mid to Far Western Region (67.7%). On the other hand, FCHVs are reported as convenient source of condom distribution in Mid to Far Western Region (32.3%) whereas 15 percent of the respondents of Western Region reported that FCHVs are convenient to them (Table 5.9).

Altogether 68 percent of the respondents mostly used to obtain condoms from Pharmacy followed by 16.4 percent from obtained it from Private Clinic. Other sources of condom availability were General Retail Store (2.6%) and Paan Shop (0.5%). More than one-tenth (12.5%) of the respondents had never bought the condom. More than seven out of every ten (70.6%) respondents reported that pharmacies are the most convenient place to obtain condom free of cost. Other convenient places to access condom free of cost were General Retail Store (3.9%), Private Clinic (14.6%), Paan Shop (1%) and the Health Post/PHCC (9.9%) (Table 5.9).

Table 3.14 Availability of Condoms as Reported by Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|------------------------------|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Usually carry condoms | | | | | | |
| Yes | 88 | 24.4 | 63 | 17.5 | 151 | 21 |
| No | 272 | 75.6 | 297 | 82.5 | 569 | 79 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |

Places where condoms are available

| | | | | | | |
|-------------------------------------|------------|----------|------------|----------|------------|----------|
| Health Post / PHCC | 283 | 78.6 | 231 | 64.2 | 514 | 71.4 |
| Pharmacy | 218 | 60.6 | 180 | 50 | 398 | 55.3 |
| Hospital | 73 | 20.3 | 88 | 24.4 | 161 | 22.4 |
| Private Clinic | 62 | 17.2 | 50 | 13.9 | 112 | 15.6 |
| FCHVs | 18 | 5 | 83 | 23.1 | 101 | 14 |
| General Retail Store (Kirana Pasal) | 44 | 12.2 | 11 | 3.1 | 55 | 7.6 |
| Health Workers/Volunteers | 18 | 5 | 18 | 5 | 36 | 5 |
| FPAN Clinic | 19 | 5.3 | 10 | 2.8 | 29 | 4 |
| Paan Shop | 3 | 0.8 | 4 | 1.1 | 7 | 1 |
| NGO | | | 5 | 1.4 | 5 | 0.7 |
| Hotel /Lodge | 4 | 1.1 | 1 | 0.3 | 5 | 0.7 |
| Brothel | | | 4 | 1.1 | 4 | 0.6 |
| Don't know | 12 | 3.3 | 20 | 5.6 | 32 | 4.4 |
| Total | 360 | * | 360 | * | 720 | * |

Usually obtain condom

| | | | | | | |
|-----------------------|------------|------------|------------|------------|------------|------------|
| I get it free of cost | 66 | 18.3 | 65 | 18.1 | 131 | 18.2 |
| I buy | 64 | 17.8 | 49 | 13.6 | 113 | 15.7 |
| Both | 81 | 22.5 | 59 | 16.4 | 140 | 19.4 |
| Never used condom | 149 | 41.4 | 187 | 51.9 | 336 | 46.7 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |

Usually obtain free condom from

| | | | | | | |
|---------------------------|------------|----------|------------|----------|------------|----------|
| Health Post/ PHCC | 135 | 91.8 | 110 | 88.7 | 245 | 90.4 |
| Peer/Friends | 31 | 21.1 | 12 | 9.7 | 43 | 15.9 |
| FCHVs | 7 | 4.8 | 34 | 27.4 | 41 | 15.1 |
| Hospital | 19 | 12.9 | 14 | 11.3 | 33 | 12.2 |
| FPAN Clinic | 2 | 1.4 | 7 | 5.6 | 9 | 3.3 |
| Health Workers/Volunteers | 1 | 0.7 | 3 | 2.4 | 4 | 1.5 |
| Total | 147 | * | 124 | * | 271 | * |

Most convenient place to obtain free condom

| | | | | | | |
|---------------------------|------------|----------|------------|----------|------------|----------|
| Health Post/ PHCC | 138 | 93.9 | 84 | 67.7 | 222 | 81.9 |
| FCHVs | 22 | 15 | 40 | 32.3 | 62 | 22.9 |
| Hospital | 29 | 19.7 | 20 | 16.1 | 49 | 18.1 |
| Peer/Friends | 29 | 19.7 | 13 | 10.5 | 42 | 15.5 |
| Health Workers/Volunteers | 1 | 0.7 | 5 | 4 | 6 | 2.2 |
| FPAN Clinic | 1 | 0.7 | 3 | 2.4 | 4 | 1.5 |
| During Community Program | 2 | 1.4 | 1 | 0.8 | 3 | 1.1 |
| Total | 147 | * | 124 | * | 271 | * |

Usually obtain condom from

| | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|------------|
| Pharmacy | 142 | 67.3 | 119 | 68.8 | 261 | 68 |
| Private Clinic | 43 | 20.4 | 20 | 11.6 | 63 | 16.4 |
| General Retail Store (Kirana Pasal) | 5 | 2.4 | 5 | 2.9 | 10 | 2.6 |
| Paan Shop | 2 | 0.9 | | | 2 | 0.5 |
| Never bought condom | 19 | 9 | 29 | 16.8 | 48 | 12.5 |
| Total | 211 | 100 | 173 | 100 | 384 | 100 |

Most convenient place to obtain free condom

| | | | | | | |
|----------|-----|------|-----|------|-----|------|
| Pharmacy | 147 | 69.7 | 124 | 71.7 | 271 | 70.6 |
|----------|-----|------|-----|------|-----|------|

| | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|------------|
| Private Clinic | 44 | 20.9 | 12 | 6.9 | 56 | 14.6 |
| Health Post/PHCC | 11 | 5.2 | 27 | 15.6 | 38 | 9.9 |
| General Retail Store (Kirana Pasal) | 7 | 3.3 | 8 | 4.6 | 15 | 3.9 |
| Paan Shop | 2 | 0.9 | 2 | 1.2 | 4 | 1 |
| Total | 211 | 100 | 173 | 100 | 384 | 100 |

* Percentages total may exceed 100 due to multiple responses

5.10 Use of Alcohol and Drugs by MLMs

More than two- third of the respondents (67.6%) had drunk alcohol in the past one month while 32.4 percent of the respondents did not consume alcohol in the past one month. Out of those alcohol consumers, 11 percent of them consumed alcohol daily, 17.4 percent consumed in 2-3 times in a week, 17.6 percent consumed at least once in a week and 21.7 percent consumed in less than once in a week. In the same way, 2.8 percent of the respondents had ever tried to consume any type of illicit drugs in the past one month and 0.4 percent of the respondents had ever injected drugs in the past one month. A total of 7.9 percent of the respondents used to drink alcohol every day during their last stay in India. About 13.5 percent of the respondents had taken alcohol for 2-3 times in every week, 20.8 percent had taken alcohol at least one time in a week and 24.2 percent had taken occasionally with less than once in a week (Table 5.10).

Table 5.10 Use of Alcohol and Drugs among Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Consumption of alcohol during past one month | | | | | | |
| Everyday | 49 | 13.6 | 30 | 8.3 | 79 | 11 |
| 2-3 times a week | 62 | 17.2 | 63 | 17.5 | 125 | 17.4 |
| At least once a week | 45 | 12.5 | 82 | 22.8 | 127 | 17.6 |
| Less than once a week | 79 | 21.9 | 77 | 21.4 | 156 | 21.7 |
| Never | 125 | 34.7 | 108 | 30 | 233 | 32.4 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Tried to take any types of drugs during past one month | | | | | | |
| Yes | 9 | 2.5 | 11 | 3.1 | 20 | 2.8 |
| No | 351 | 97.5 | 349 | 96.9 | 700 | 97.2 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Ever injected drugs | | | | | | |
| Yes | 3 | 0.8 | | | 3 | 0.4 |
| No | 357 | 99.2 | 360 | 100 | 717 | 99.6 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Consumption of alcohol during last stay in India | | | | | | |
| Every day | 36 | 10 | 21 | 5.8 | 57 | 7.9 |
| 2-3 times a week | 54 | 15 | 43 | 11.9 | 97 | 13.5 |
| At least once a week | 52 | 14.4 | 98 | 27.2 | 150 | 20.8 |
| Less than once a week | 92 | 25.6 | 82 | 22.8 | 174 | 24.2 |
| Never | 126 | 35 | 116 | 32.2 | 242 | 33.6 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |

CHAPTER 6: KNOWLEDGE OF STIs, HIV and AIDS

HIV and AIDS awareness along with knowledge about STIs is crucial to reduce the risk of HIV transmission. This chapter deals with the level of knowledge among MLMs regarding STI, HIV and AIDS.

6.1 Knowledge of HIV and AIDS among MLMs

Knowledge of the HIV and AIDS among the respondents is one of the most important determinants for the adoption of safe behaviors. As indicated in the table 6.1, four-fifths (81.7%) of the respondents had heard about the AIDS; however, almost one-fifth (18.3%) had never heard about the AIDS. Slightly higher proportion of the respondents who belong to the Western Region (88.1%) had ever heard about AIDS than those respondents of Mid to Far Western Region (75.3%). Out of those respondents who had some sorts of knowledge about AIDS, they received the information from different sources such as Radio (47.6%), Friends (40.8%), Television (27.6%), Teachers/School (25.7%), Internet (19.7%), Street drama (11.6%), Billboard/signboard (7.7%), Health Post/Hospital (5.1%) and NGO personnel (0.7%).

Table 6.1 Source of Knowledge of HIV and AIDS among Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Ever heard about HIV and AIDS | | | | | | |
| Yes | 317 | 88.1 | 271 | 75.3 | 588 | 81.7 |
| No | 43 | 11.9 | 89 | 24.7 | 132 | 18.3 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Sources of information of HIV and AIDS | | | | | | |
| Radio | 154 | 48.6 | 126 | 46.5 | 280 | 47.6 |
| Friends | 108 | 34.1 | 132 | 48.7 | 240 | 40.8 |
| TV | 99 | 31.2 | 63 | 23.2 | 162 | 27.6 |
| Teacher/School | 101 | 31.9 | 50 | 18.5 | 151 | 25.7 |
| Internet | 83 | 26.2 | 33 | 12.2 | 116 | 19.7 |
| Street drama | 39 | 12.3 | 29 | 10.7 | 68 | 11.6 |
| Billboard/signboard | 26 | 8.2 | 19 | 7 | 45 | 7.7 |
| Hospital/Health Post | 19 | 6 | 11 | 4.1 | 30 | 5.1 |
| NGOs Personnel | 2 | 0.6 | 2 | 0.7 | 4 | 0.7 |
| Don't know | 10 | 3.2 | 5 | 1.8 | 15 | 2.6 |
| Total | 317 | * | 271 | * | 588 | * |

** Percentages total may exceed 100 due to multiple responses*

Table 6.2 explains about the knowledge of different kinds of messages pertinent to the HIV and AIDS among the respondents. Only 1.7 percent of the respondents reported that HIV is not transmitted through kissing and another equal proportion of the respondents opined that HIV is not transmitted through hand shaking. More than four-fifths of the respondents (83%) opined that avoiding unsafe sex and the use condom is one of the key practices to prevent from getting HIV infection. Nearly one-fifth (19.4%) of the respondents reported that HIV is transmitted through blood, 17.2 percent opined that HIV is transmitted through blade/injection and 0.3 percent of the them reported that infected mother can transmit HIV to her unborn child. More than one-fifth (21.8%) of the respondents stated that AIDS is communicable disease. About 3 percent of the respondents opined that person infected with HIV should not be hated.

Table 6.2 Knowledge of HIV and AIDS among Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|----------|--------------------|----------|------------|----------|
| | N | % | N | % | N | % |
| Heard messages regarding HIV and AIDS | | | | | | |
| HIV is not transmitted through kissing | 9 | 2.8 | 1 | 0.4 | 10 | 1.7 |
| Avoid unsafe sex and use condom | 256 | 80.8 | 232 | 85.6 | 488 | 83 |
| HIV is transmitted through blood | 72 | 22.7 | 42 | 15.5 | 114 | 19.4 |
| HIV is transmitted through blade/injection | 64 | 20.2 | 37 | 13.7 | 101 | 17.2 |
| AIDS is communicable disease | 75 | 23.7 | 53 | 19.6 | 128 | 21.8 |
| Infected mother can transmit HIV to her child | 2 | 0.6 | | | 2 | 0.3 |
| HIV is not transmitted through hand shaking | 9 | 2.8 | 1 | 0.4 | 10 | 1.7 |
| Person with HIV and AIDS should not be hated | 11 | 3.5 | 7 | 2.6 | 18 | 3.1 |
| Don't remember' | 2 | 0.6 | 7 | 2.6 | 9 | 1.5 |
| Total | 317 | * | 271 | * | 588 | * |

* Percentages total may exceed 100 due to multiple responses

Table 6.3 reveals the knowledge of HIV transmission and preventive methods among the MLMs. Slightly more than half (52.7%) of the respondents opined that HIV transmission can be prevented through abstinence and this understanding was evident among almost equal proportion of the respondents of both the regions. Similarly, improved understanding was observed in regards to the faithful partnership as a measure of HIV prevention (70.1%) and consistent use of condom (81%). In the meantime, two-third (66.2%) of the respondents opined that a person looking healthy can be infected with HIV and this perception was higher among the respondents of Western Region (71.6%) than those respondents of Mid to Far Western Region (59.8%). More than two-fifths (41.2%) of the respondents opined that a person can get HIV infection from mosquito bite. More than one-fifth (22.3%) of the respondents stated that HIV is transmitted by sharing the meal. Respondents who belonged to the Western Region had better understanding of all the A, B and Cs of the HIV prevention (36.1%) than that was evident among the respondents of Mid to Far Western Region (26.9%). Only 31.5 percent of the respondents had knowledge of all the three ABCs of the HIV prevention and 17.2 percent of them had knowledge of all the five components (BCDEF) of HIV prevention. Similarly, knowledge of BCDEF was also evident among the higher proportion of the respondents of Western Region (20.6%) when it is compared with those respondents of Mid to Far Western Region (13.9%) (Table 6.3).

*Table 6.3 Knowledge of HIV and AIDS Transmission**

| Description | Western | | Mid to Far Western | | Total | |
|--|---------|------|--------------------|------|-------|------|
| | N | % | N | % | N | % |
| Abstinence from sex (A) | 168 | 53 | 142 | 52.4 | 310 | 52.7 |
| Being faithful to one partner (B) | 241 | 76 | 171 | 63.1 | 412 | 70.1 |
| Consistent condom use (C) | 271 | 85.5 | 205 | 75.6 | 476 | 81 |
| Healthy looking person can be infected (D) | 227 | 71.6 | 162 | 59.8 | 389 | 66.2 |
| Get HIV from mosquito bite (E) | 134 | 42.3 | 108 | 39.9 | 242 | 41.2 |
| Get HIV by sharing meal (F) | 63 | 19.9 | 68 | 25.1 | 131 | 22.3 |
| Knowledge of all three ABC | 130 | 36.1 | 97 | 26.9 | 227 | 31.5 |
| Knowledge of all five BCDEF | 74 | 20.6 | 50 | 13.9 | 124 | 17.2 |

* Percentages total may exceed 100 due to multiple responses

A total of 30.5 percent of respondents reported that some of their relatives had HIV infection or died due to AIDS and another 26.2 percent respondents reported that their close friends had HIV infection or they died of AIDS. A total of 47.1 percent of the respondents stated that a woman who gets infected with HIV can transmit the virus to her newborn child through the breast milk whereas 28.2 percent reported that HIV cannot be transmitted through breast feeding. Almost one out of every ten respondents (9.5%) opined that a person can get HIV by holding with HIV infected person; More than nine out of every ten (93.4%) respondents opined that HIV can be transmitted by the use of already used needle/syringes and such perceptions was quite high among the respondents of both the Western Region (94.6%) and Mid to Far Western Regions (91.9%). Almost all (96.1%) the respondents were known that HIV infection can be transmitted through the transfusion of HIV infected blood to others. Similarly, 70.6 percent of the respondents stated that a pregnant woman infected with HIV can transmit the virus to her unborn fetus. In response to the question “What can a pregnant woman do to reduce the risk of transmission of HIV to her unborn child?”, 26.7 percent of the MLMs opined that medication could reduce the HIV transmission, one percent opined that advice and counseling can reduce the risk of transmission while most of the respondents (72.3%) did not know about the risk reduction methods of HIV transmission to the fetus in utero (Table 6.4).

Table 6.4 Knowledge on HIV Infected People and Ways of its Transmission

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Know anyone infected with HIV or died of AIDS | 64 | 17.8 | 77 | 21.4 | 141 | 19.6 |
| A close relatives or close friend | | | | | | |
| Close relative | 16 | 25 | 27 | 35.1 | 43 | 30.5 |
| Close friend | 13 | 20.3 | 24 | 31.2 | 37 | 26.2 |
| No relation | 35 | 54.7 | 26 | 33.8 | 61 | 43.3 |
| Total | 64 | 100 | 77 | 100 | 141 | 100 |
| Awareness on HIV* | | | | | | |
| A woman with HIV transmits the virus to her newborn child | 144 | 45.4 | 133 | 49.1 | 277 | 47.1 |
| A person gets HIV by holding on with HIV infected person | 31 | 9.8 | 25 | 9.2 | 56 | 9.5 |
| A person gets HIV by using previously used needle/syringe | 300 | 94.6 | 249 | 91.9 | 549 | 93.4 |
| Blood transfusion from an infected person transmits HIV | 311 | 98.1 | 254 | 93.7 | 565 | 96.1 |
| A pregnant woman infected with HIV transmits the virus to her fetus | 226 | 71.3 | 189 | 69.7 | 415 | 70.6 |
| A pregnant woman can reduce the risk of transmission of HIV to her unborn child | | | | | | |
| Take medication | 39 | 17.3 | 72 | 38.1 | 111 | 26.7 |
| Take advice and counseling | 3 | 1.3 | 1 | 0.5 | 4 | 1 |
| Don't know | 184 | 81.4 | 116 | 61.4 | 300 | 72.3 |
| Total | 226 | 100 | 189 | 100 | 415 | 100 |

* Percentages total may exceed 100 due to multiple responses

6.2 Knowledge and Treatment of STIs

Male labor migrants working in outstations who have more than one sex partners are vulnerable to acquire STIs. To assess the extent and prevalence of STIs among the migrant labors, series of questions related to the STI infection, including their experiences of STI symptoms were asked to the respondents.

Table 6.5 shows the understanding of respondents in regards to STIs and the different kinds of symptoms experienced by them in the past one year. They understood that white discharge/discharge of pus/Dhatu flow (6.5%), painful urination (3.6%); and burning sensation while at the time of urination (4%), ulceration around the genitalia (16.1%), syphilis (24%), HIV and AIDS (50.4%) are the common presenting STI symptoms. Respondents of the Western Region had better understanding of all the symptoms and conditions of STIs than those respondents who belong to the Mid to Far Western Region except syphilis; which is reported by slightly higher proportion of respondents of Mid to Far Western Region (26.4%) than those respondents of Western Region (21.7%). Surprisingly, almost two out of every five (39.9%) respondents did not have understanding of STI related symptoms and the proportion of those who did not understand about these STI are considerably more in the Mid to Far Western Region (49.2%) than the Western Region (30.6%). In the meantime, several kinds of STI related symptoms were experienced by the respondents in the past one year. Reported symptoms were White discharge/pus (0.6%), pain during urination (0.4%); and burning sensation while at the time of urination (1.1%), genital ulcers (1%) and others (0.3%).

Table 6.5 Understanding of STIs and Reported Symptoms (Past Year)

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|----------|--------------------|----------|------------|----------|
| | N | % | N | % | N | % |
| Understanding of STI | | | | | | |
| White Discharge/Discharge of Pus/Dhatu flow | 30 | 8.3 | 17 | 4.7 | 47 | 6.5 |
| Pain during urination | 17 | 4.7 | 9 | 2.5 | 26 | 3.6 |
| Burning Sensation while Urinating | 17 | 4.7 | 12 | 3.3 | 29 | 4 |
| Ulcer or sore around genital area | 65 | 18.1 | 51 | 14.2 | 116 | 16.1 |
| Syphilis (Bhiringi) | 78 | 21.7 | 95 | 26.4 | 173 | 24 |
| HIV/AIDS | 210 | 58.3 | 153 | 42.5 | 363 | 50.4 |
| Don't know | 110 | 30.6 | 177 | 49.2 | 287 | 39.9 |
| Total | 360 | * | 360 | * | 720 | * |
| Types of STI symptoms experienced in the past year | | | | | | |
| White Discharge/Discharge of pus | 2 | 0.6 | 2 | 0.6 | 4 | 0.6 |
| Pain during urination | 2 | 0.6 | 1 | 0.3 | 3 | 0.4 |
| Burning sensation while urinating | 7 | 1.9 | 1 | 0.3 | 8 | 1.1 |
| Ulcer or sore around genital area | 5 | 1.4 | 2 | 0.6 | 7 | 1 |
| Other | 1 | 0.3 | 1 | 0.3 | 2 | 0.3 |
| Non above the symptoms | 345 | 95.8 | 354 | 98.3 | 699 | 97.1 |
| Total | 360 | * | 360 | * | 720 | * |

** Percentages total may exceed 100 due to multiple responses*

Out of those respondents who reported some kinds of STIs in the past one year, only one-third (33.3%) of them had received the treatment against these symptoms. Among those respondents who were treated against the STIs, 57.1 percent had got the treatment from private clinics followed by 42.9 percent from hospital and only 14.3 percent of them had received care from Health Post/Health Center. Two-fifths respondents of the Western Region who were treated against STIs had received treatment from private clinics as against the hundred percent respondents of the Mid to Far Western Region. Similarly, 71.4 percent of the respondents who had treatment against STIs, had received counseling services and the proportion of those counseling recipients were noticeably higher in Western Region (80%) than the Mid to Far Western Region (50%). Among those respondents who received counseling services, hundred

percent of them reported that they were suggested to use condom at all the sexual contacts and 16.7 percent were advised to reduce the number of sexual partners (Table 6.6).

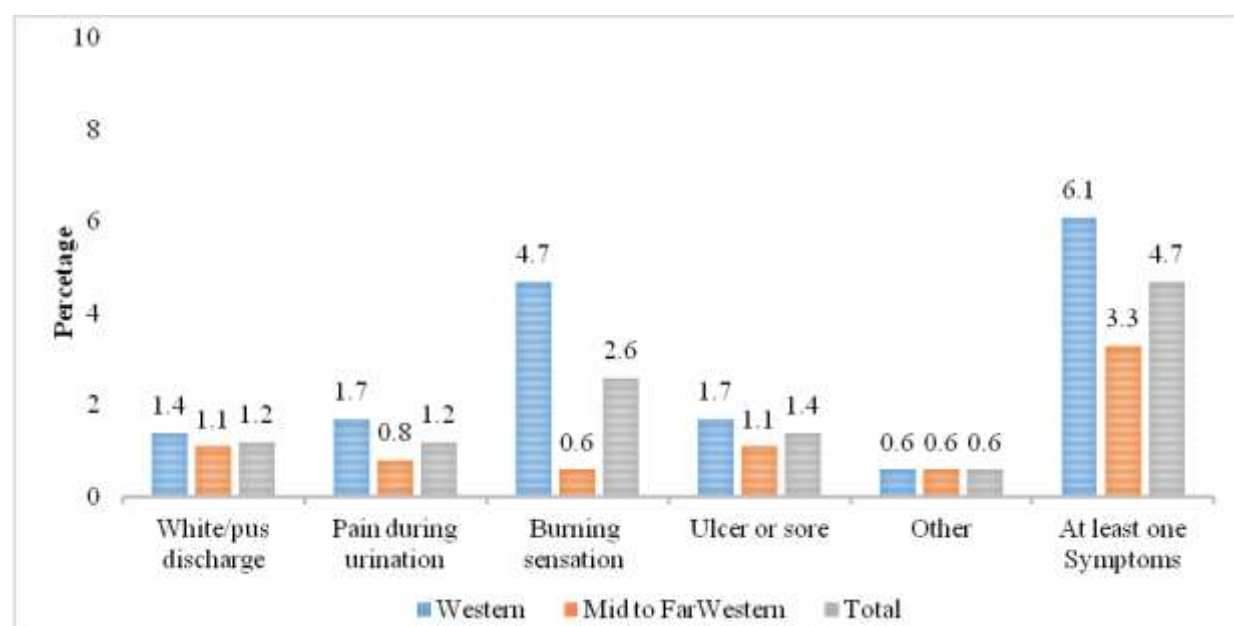
Table 6.6 Reported Treatment of STIs among Male Labor Migrants (in Past Year)

| Description | Western | | Mid to Far Western | | Total | |
|---|-----------|--------------|--------------------|--------------|-----------|--------------|
| | N | % | N | % | N | % |
| Received treatment for any of the above symptoms | | | | | | |
| Yes | 5 | 33.3 | 2 | 33.3 | 7 | 33.3 |
| No | 10 | 66.7 | 4 | 66.7 | 14 | 66.7 |
| Total | 15 | 100 | 6 | 100 | 21 | 100 |
| Places of treatment of STI symptoms in the past year | | | | | | |
| Private Clinic | 2 | 40.0 | 2 | 100.0 | 4 | 57.1 |
| Health Post/PHCC | | | 1 | 50.0 | 1 | 14.3 |
| Hospital | 3 | 60.0 | | | 3 | 42.9 |
| Total | 5 | 100.0 | 2 | 100.0 | 7 | 100.0 |
| Received counseling | | | | | | |
| Yes | 4 | 80.0 | 1 | 50.0 | 5 | 71.4 |
| No | 1 | 20.0 | 1 | 50.0 | 2 | 28.6 |
| Total | 5 | 100.0 | 2 | 100.0 | 7 | 100.0 |
| Counseling provided | | | | | | |
| Told me to use condom | 4 | 100.0 | 2 | 100.0 | 5 | 100.0 |
| Told me to reduce number of sexual partners | 1 | 20.0 | | | 1 | 16.7 |
| Total | 5 | * | 1 | * | 6 | 100 |

** Percentages total may exceed 100 due to multiple responses*

Figure 6.1 shows the symptoms experienced by MLMs at the time of survey. A total of 1.2 percent respondents reported that they had white discharge or the discharge of pus from genital organs and another equal proportion of the respondents reported painful urination. Similarly, 2.6 percent of the respondents had burning sensation at the time of urination, 1.4 percent had genital ulcers and 0.6 percent of them had some other symptoms. In the meantime, 4.7 percent of the respondents had at least one symptom of STI at the time of survey.

Figure 6.1: Symptoms Experienced by Labor Migrants (Current Year)



Among those respondents who reported some kinds of symptoms of STI, 17.6 percent of them had received the treatment against recent STI symptoms where all these symptoms were experienced by the respondents of Western Region only. Fifty percent of the respondents who had received treatment against the current symptoms of STIs within one week and another equivalent proportion (16.7%) of the respondents had received treatment in each of the second, third and fourth or more weeks respectively after the diagnosis of STIs. Out of those who had received treatment, 16.7 percent of them availed the care from Private Clinic and another equal proportion of them availed care from Health Post/PHCC; and two- third of them (66.7%) had taken care from Hospitals. A total of 83.3 percent respondents who had treatment had availed the prescription for medication and hundred percent of them obtained all the prescribed medicine for the treatment of reported symptoms of STIs. All the treatment recipients had taken treatment as prescribed. Respondents who had treatment had paid NRs 100, 400, 3500, 4000 and 6000 for the treatment respectively (Table 6.7).

Table 6.7 Reported STI Treatment among Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|---|-----------|------------|--------------------|------------|-----------|------------|
| | N | % | N | % | N | % |
| Received treatment for above symptoms | | | | | | |
| Yes | 6 | 27.3 | | | 6 | 17.6 |
| No | 16 | 72.7 | 12 | 100 | 28 | 82.4 |
| Total | 22 | 100 | 12 | 100 | 34 | 100 |
| Treatment received | | | | | | |
| Within one week | 3 | 50.0 | | | 3 | 50.0 |
| Two weeks | 1 | 16.7 | | | 1 | 16.7 |
| Three weeks | 1 | 16.7 | | | 1 | 16.7 |
| Four weeks and more | 1 | 16.7 | | | 1 | 16.7 |
| Total | 6 | 100 | | | 6 | 100 |
| Places visited for treatment of STI symptoms | | | | | | |
| Private Clinic | 1 | 16.7 | | | 1 | 16.7 |
| Health Post/ PHCC | 1 | 16.7 | | | 1 | 16.7 |

| | | | | |
|--|----------|------------|----------|------------|
| Hospital | 4 | 66.7 | 4 | 66.7 |
| Total | 6 | 100 | 6 | 100 |
| Received prescription for medicine | | | | |
| Yes | 5 | 83.3 | 5 | 83.3 |
| No | 1 | 16.7 | 1 | 16.7 |
| Total | 6 | 100 | 6 | 100 |
| Obtained all the medicine prescribed | | | | |
| Yes I obtained all of it | 5 | 100 | 5 | 100 |
| Total | 5 | 100 | 5 | 100 |
| Took all the prescribed medicine | | | | |
| Yes | 5 | 100 | 5 | 100 |
| Total | 5 | 100 | 5 | 100 |
| Amount paid for the medicine (Nepalese Rupees) | | | | |
| Rs 100 | 1 | 20.0 | 1 | 20.0 |
| Rs 400 | 1 | 20.0 | 1 | 20.0 |
| Rs 3500 | 1 | 20.0 | 1 | 20.0 |
| Rs 4000 | 1 | 20.0 | 1 | 20.0 |
| Rs 6000 | 1 | 20.0 | 1 | 20.0 |
| Total | 5 | 100.0 | 5 | 100.0 |

* Percentages total may exceed 100 due to multiple responses

6.3 Perception on HIV Test

Almost half (49.8%) of the respondents were known about the availability of confidential HIV testing facility in the community and this awareness was prevalent among higher proportion of the respondents of Western Region (58%) that the respondents of Mid to Far Western Region (40.2%). Nearly 15 percent of the respondents had done testing for HIV infection and this testing practice was reported more frequently among the respondents of Mid to Far Western Region (21%) than those respondents of Western Region (9.5%). Out of those respondents who had ever had HIV testing, 77.0 percent of them had done HIV testing voluntarily and 23 percent did so because it was required for other purposes (Table 6.8).

Almost all respondents who were tested against HIV infection (98.9%) had received the result of HIV testing. One respondent did not know about the result of HIV testing because he was afraid of the result. Almost three-fourth of respondents who were tested against HIV infection had done the testing within last four years with 28.7 percent being tested within the last 12 months, 27.6 percent tested between 1-2 years and 17.2 percent were tested between 2-4 years. Remaining 26.4 percent had done HIV testing before four or more years from the date of survey (Table 6.8).

Table 6.8 Knowledge about HIV Testing Facilities among MLMs and History of HIV Test

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Confidential HIV test facility available in the community | | | | | | |
| Yes | 184 | 58 | 109 | 40.2 | 293 | 49.8 |
| No | 109 | 34.4 | 120 | 44.3 | 229 | 38.9 |
| Don't know | 24 | 7.6 | 42 | 15.5 | 66 | 11.2 |
| Total | 317 | 100 | 271 | 100 | 588 | 100 |
| Ever had HIV test | | | | | | |
| Yes | 30 | 9.5 | 57 | 21 | 87 | 14.8 |
| No | 287 | 90.5 | 214 | 79 | 501 | 85.2 |

| | | | | | | |
|--|------------|------------|------------|------------|------------|------------|
| Total | 317 | 100 | 271 | 100 | 588 | 100 |
| Voluntarily underwent the test or because it was required | | | | | | |
| Voluntarily | 19 | 63.3 | 48 | 84.2 | 67 | 77 |
| Required | 11 | 36.7 | 9 | 15.8 | 20 | 23 |
| Total | 30 | 100 | 57 | 100 | 87 | 100 |
| Obtained the test result | | | | | | |
| Yes | 30 | 100 | 56 | 98.2 | 86 | 98.9 |
| No | | | 1 | 1.8 | 1 | 1.1 |
| Total | 30 | 100 | 57 | 100 | 87 | 100 |
| Reason for not receiving the test result | | | | | | |
| Afraid of result | | | 1 | 100 | 1 | 100 |
| Total | | | 1 | 100 | 1 | 100 |
| Most recent HIV test | | | | | | |
| Within last 12 months | 8 | 26.7 | 17 | 29.8 | 25 | 28.7 |
| Between 1-2 years | 10 | 33.3 | 14 | 24.6 | 24 | 27.6 |
| Between 2-4 years | 4 | 13.3 | 11 | 19.3 | 15 | 17.2 |
| More than 4 years ago | 8 | 26.7 | 15 | 26.3 | 23 | 26.4 |
| Total | 30 | 100 | 57 | 100 | 87 | 100 |

CHAPTER 7: EXPOSURE TO STI, HIV AND AIDS AWARENESS PROGRAMS

This chapter discusses and explores the exposures of the MLMS to ongoing STI, HIV and AIDS awareness programs and their participation in those activities. The respondents in the survey were asked several questions relating to some of the most important components of current HIV and AIDS related programs implemented by several organizations. Information provided by them has been analyzed in this section.

7.1 Exposure to Peer/Outreach Educators

STI, HIV and AIDS awareness interventions through outreach and peer educators (OEs and PEs) is one of the most popular interventions. OEs and PEs mobilization to educate the target most risk key population on STI, HIV and AIDS is a vital approach for HIV prevention. Table 7.1 elaborates the exposures and knowledge of MLMs in regards to the programs related to STIs, HIV and AIDS. Only 2.8 percent of the respondents had ever met or discussed or interacted with peer educators or outreach educators in the last 12 months. Outreach educators/peer educators with whom the respondents had an interaction belonged to different NGOs enlisted in the table 7.1.

Table 7.1 Meeting/Interaction of MLMs with Peer/Outreach Educators

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Met or discussed or interacted with Peer Educators (PE) or Outreach Educators (OE) in the Last 12 months | | | | | | |
| Yes | 10 | 2.8 | 10 | 2.8 | 20 | 2.8 |
| No | 350 | 97.2 | 348 | 96.7 | 698 | 96.9 |
| No response | | | 2 | 0.6 | 2 | 0.3 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Organizations represented by OE/PE | | | | | | |
| Digo Bikas | | | 1 | 10 | 1 | 5 |
| SACT | | | 1 | 10 | 1 | 5 |
| Nawakiran Plus | | | 1 | 10 | 1 | 5 |
| WAC Nepal | | | 1 | 10 | 1 | 5 |
| Sahara | | | 1 | 10 | 1 | 5 |
| Indreni Samaj Kendra | 1 | 10 | | | 1 | 5 |
| Don't remember/Don't know | 10 | 100 | 7 | 70 | 17 | 85 |
| Total | 10 | * | 10 | * | 20 | * |

* Percentages total may exceed 100 due to multiple responses

7.2 Drop-in-Centers Visiting Practice

Drop-in-Center (DIC) is another vital component of HIV prevention programs. These DICs not only provide a safe space for the target communities to socialize but are also the site for educational and counseling activities. Only 0.4 percent of the respondents had visited to Drop in Center (DIC). Out of those who had ever visited to DICs, 33.3 percent of them visited to the DIC run by Nepal Red Cross Society, 33.3 percent visited to the DIC of WAC- Nepal and 33.3 percent visited to the DIC of Indreni Samaj Kendra (Table 7.2).

Table 7.2 DIC visiting Practice of MLMs

| Description | Western | | Mid to Far Western | | N | Total % |
|---|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | | |
| Visited DIC in the last 12 months | | | | | | |
| Yes | 2 | 0.6 | 1 | 0.3 | 3 | 0.4 |
| No | 358 | 99.4 | 359 | 99.7 | 717 | 99.6 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Name of organizations that run DIC/s visited by them | | | | | | |
| Red Cross | 1 | 50 | | | 1 | 33.3 |
| WAC Nepal | | | 1 | 100 | 1 | 33.3 |
| Indreni Samaj Kendra | 1 | 50 | | | 1 | 33.3 |
| Total | 2 | 100 | 1 | 100 | 3 | 100 |

7.3 STI Clinic and HTC Center Visiting Practices

The STI Clinics are being run by different organizations in survey districts or nearby locations for the prompt detection and treatment of STIs. As indicated in the table 7.3, only 0.4 percent of the respondents visited to the STI clinics in the last 12 months. Amongst those STI clinic visitors, 33.3 percent of them visited to the clinic run by government of Nepal and another 33.3 percent of them visited to the STI clinics run by medical college. About one-third (33.3%) of the respondents who had visited to STI clinics did not know the name of organization where they get the treatment.

Table 7.3 Visits to the HTC and Clinics by Male Labor Migrants

| Description | Western | | Mid to Far Western | | N | Total % |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | | |
| Visited any STI Clinic in the last 12 months | | | | | | |
| Yes | | | 3 | 0.8 | 3 | 0.4 |
| No | 360 | 100 | 357 | 99.2 | 717 | 99.6 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Name of organizations that run STI clinic visited by them | | | | | | |
| Government hospitals | | | 1 | 33.3 | 1 | 33.3 |
| Medical colleges | | | 1 | 33.3 | 1 | 33.3 |
| Don't remember/Don't know | | | 1 | 33.3 | 1 | 33.3 |
| Total | | | 3 | 100 | 3 | 100 |
| Visited HTC in the last 12 months | | | | | | |
| Yes | 1 | 0.3 | 4 | 1.1 | 5 | 0.7 |
| No | 359 | 99.7 | 356 | 98.9 | 715 | 99.3 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Name of organizations that run the HTCs visited by them | | | | | | |
| WAC- Nepal | | | 2 | 50 | 2 | 40 |
| Indreni Samaj Kendra | 1 | 100 | | | 1 | 20 |
| Don't remember/Don't know | | | 2 | 50 | 2 | 40 |
| Total | 1 | 100 | 4 | 100 | 5 | 100 |

In response to the question on whether they had visited any HIV testing and counselling (HTC) centers in the past year, only 0.7 percent of the respondents reported that they had visited to HTC clinics in the last 12 months. Out of those HTC visitors, 40 percent of them visited to the HTC run by WAC-Nepal, 20 percent visited to the HTC run by Indreni Samaj Kendra while

remaining 40 percent of the respondents did not know about the places for availability of HTC services (Table 7.3).

7.4 Knowledge about PMTCT

Table 7.4 reflects the knowledge of respondents about the Prevention of Mother to Child Transmission (PMTCT) services. Only 2.8 percent of the respondents had heard about the PMTCT services. Out of those who had ever heard about PMTCT services, 55 percent of them knew about the places for the availability of PMTCT services. Seven out of every ten respondents reported that PMTCT services are available from Government hospital and other service centers are Health Post (10%), Medical college (10%), HTC centers (10%) and Indreni Samaj Kendra(10%)

Table 7.4 Knowledge about Prevention of Mother to Child Transmission

| Description | Western | | Mid to Far Western | | Total | |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Heard about PMTCT | | | | | | |
| Yes | 12 | 3.3 | 8 | 2.2 | 20 | 2.8 |
| No | 183 | 50.8 | 205 | 56.9 | 388 | 53.9 |
| Don't know | 165 | 45.8 | 145 | 40.3 | 310 | 43.1 |
| No response | | | 2 | 0.6 | 2 | 0.3 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Knowledge about PMTCT services available | | | | | | |
| Yes | 4 | 33.3 | 7 | 87.5 | 11 | 55 |
| No | 6 | 50.0 | | | 6 | 30 |
| Don't know | 2 | 16.7 | 1 | 12.5 | 3 | 15 |
| Total | 12 | * | 8 | * | 20 | * |
| Name of organizations that provide PMTCT services | | | | | | |
| Government hospitals | 2 | 50 | 5 | 83.3 | 7 | 70 |
| Health Post | 1 | 25 | | | 1 | 10 |
| Medical colleges | | | 1 | 16.7 | 1 | 10 |
| HTC centers | | | 1 | 16.7 | 1 | 10 |
| Indreni Samaj Kendra | 1 | 25 | | | 1 | 10 |
| Don't remember/Don't know | | | 1 | 16.7 | 1 | 10 |
| Total | 4 | * | 6 | * | 10 | * |

* Percentages total may exceed 100 due to multiple responses\

7.5 Knowledge about Anti-retroviral Therapy (ART)

A total of 10.7 percent respondents had heard about the ART services while majority of them were not known about the ART services. Similarly, 50.6 percent of the respondents knew about the place of availability of ART services. Different places from where ART services available as reported by the respondents were Government hospitals (61.5%), Health Post (17.9%) HTC centers (2.6%), Nawakiran Plus (5.1%), Dhangadi (2.6%) and Indreni Samaj Kendra (2.6%) (Table 7.5).

Table 7.5 Knowledge about ART Services

| Description | Western | | Mid to Far Western | | N | Total % |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | | |
| Heard about ART services | | | | | | |
| Yes | 47 | 13.1 | 30 | 8.3 | 77 | 10.7 |
| No | 244 | 67.8 | 219 | 60.8 | 463 | 64.3 |
| Don't know | 69 | 19.2 | 110 | 30.6 | 179 | 24.9 |
| No response | | | 1 | 0.3 | 1 | 0.1 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Know from where people can get ART services | | | | | | |
| Yes | 20 | 42.6 | 19 | 63.3 | 39 | 50.6 |
| No | 21 | 44.7 | 3 | 10 | 24 | 31.2 |
| Don't know | 5 | 10.6 | 8 | 26.7 | 13 | 16.9 |
| No response | 1 | 2.1 | | | 1 | 1.3 |
| Total | 47 | 100 | 30 | 100 | 77 | 100 |
| Name of organizations that provide ART services | | | | | | |
| Government hospitals | 15 | 75 | 9 | 47.4 | 24 | 61.5 |
| Health post | 2 | 10 | 5 | 26.3 | 7 | 17.9 |
| HTC centers | | | 1 | 5.3 | 1 | 2.6 |
| Nawakiran Plus | | | 2 | 10.5 | 2 | 5.1 |
| Dhangadi Nepal | | | 1 | 5.3 | 1 | 2.6 |
| Indreni Samaj Kendra | 1 | 5 | | | 1 | 2.6 |
| Don't remember/Don't know | 2 | 10 | 1 | 5.3 | 3 | 7.7 |
| Total | 20 | 100 | 19 | 100 | 39 | 100 |

7.6 Knowledge about Viral Load Testing Service and Community and Home Based Care

As indicated in the table 7.6, 2.1 percent of the respondents had ever heard about the viral load testing services and this awareness was slightly higher among the respondents of Western Region (3.3%) than the respondents of Mid to Far Western Region (0.8%). About 53.3 percent of the respondents were known about the viral load testing centers. Out of those who had heard about viral load testing services, 62.5 percent of them stated that ART service is available at Government hospital followed by each of the 12.5 percent respondents reported that ART service is available at Medical College, Nawakiran Plus, and Mission Hospital respectively.

Table 7.6 Knowledge about Viral Load Testing and CHBC

| Description | Western | | Mid to Far Western | | N | Total % |
|--|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | | |
| Heard about viral load testing services | | | | | | |
| Yes | 12 | 3.3 | 3 | 0.8 | 15 | 2.1 |
| No | 275 | 76.4 | 235 | 65.3 | 510 | 70.8 |
| Don't know | 73 | 20.3 | 121 | 33.6 | 194 | 26.9 |
| No response | | | 1 | 0.3 | 1 | 0.1 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Know from where can get viral load testing services | | | | | | |
| Yes | 5 | 41.7 | 3 | 100 | 8 | 53.3 |
| No | 6 | 50 | | | 6 | 40 |
| Don't know | 1 | 8.3 | | | 1 | 6.7 |
| Total | 12 | 100 | 3 | 100 | 15 | 100 |

| Name of organizations that provide viral load testing services | | | | | | |
|---|------------|------------|------------|------------|------------|------------|
| Government hospitals | 3 | 60 | 2 | 66.7 | 5 | 62.5 |
| Medical Colleges | 1 | 20 | | | 1 | 12.5 |
| Nawakiran Plus | | | 1 | 33.3 | 1 | 12.5 |
| Mission Hospital | 1 | 20 | | | 1 | 12.5 |
| Total | 5 | 100 | 3 | 100 | 8 | 100 |
| Heard about CHBC | | | | | | |
| Yes | 8 | 2.2 | 8 | 2.2 | 16 | 2.2 |
| No | 319 | 88.6 | 279 | 77.5 | 598 | 83.1 |
| Don't know | 33 | 9.2 | 73 | 20.3 | 106 | 14.7 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Ever Met with CHBC health workers in the house in the last 12 months | | | | | | |
| Yes | 2 | 0.6 | 5 | 1.4 | 7 | 1 |
| No | 358 | 99.4 | 355 | 98.6 | 713 | 99 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Organization represented by OE/PEs | | | | | | |
| Health Post | 2 | 100 | 1 | 20 | 3 | 42.9 |
| Nepal Red Cross Society | 1 | 50 | | | 1 | 14.3 |
| Digo Bikas | | | 1 | 20 | 1 | 14.3 |
| SACT | | | 1 | 20 | 1 | 14.3 |
| Don't remember/Don't know | 1 | 50 | 3 | 60 | 4 | 57.1 |
| Total | 2 | * | 5 | * | 7 | * |

Table 7.6 further shows the percentage of the respondents who had heard about any Community Home Based Care (CHBC) services that are provided for HIV positive people. Knowledge of respondents about the community and home based care for HIV infected person. Only a few respondents (2.2%) had heard about the CHBC and one percent of them had ever met with CHBC health workers in the house in the last 12 months. As reported by the respondents different organizations provide CHBC services through OEs or PEs include Health Post (30%), Red Cross Society (10%), Digo Bikash (10%) and SACT (10%) while 40 percent respondents did not know about any organizations providing CHBC service.

7.7 Stigma against HIV and AIDS among MLMs

Table 7.7 shows the different kinds of stigma prevalent against HIV and AIDS among MLMs. Majority of the MLMs (83.3%) expressed their willingness to take care of HIV positive male relatives in the household and it was almost equal among the MLMs of both the regions. Similarly, 82.8 percent of the MLMs expressed the willingness to take care of HIV positive female relatives in the household. Almost 54 percent of the MLMs were willing to maintain confidentiality of a HIV positive member of a family and this attitude was expressed by almost equal proportion of the respondents of both the regions. More than three-quarters (76.7%) of the MLMs expressed their willingness to buy food from HIV infected shopkeeper. Slightly more than two-fifths (41.0%) of the MLMs opined that HIV infected person should get the same kinds of health care like other non- infected people, 40.8 percent of them reported that HIV infected person require more health care than others chronic diseases and 4.3 percent stated that HIV infected person required less care than others who have chronic diseases (Table 7.7). Almost 70.0 percent respondents opined that HIV infected person should be allowed to work together with others and this kind of opinion was expressed by more than three-quarters of the respondents of Western Region (76.7%) as against the 61.7 percent of the respondents of Mid to Far Western Region. Almost four-fifths (78.8%) of the respondents stated that the

children living with HIV infection should be allowed to attend the classes in schools along with HIV negative students (Table 7.7).

Table 7.7 Stigma against HIV and AIDS among Male Labor Migrants

| Description | Western | | Mid to Far Western | | Total | |
|---|------------|------------|--------------------|------------|------------|------------|
| | N | % | N | % | N | % |
| Respondent willing to take care of HIV positive male relative in the household | | | | | | |
| Yes | 302 | 83.9 | 298 | 82.8 | 600 | 83.3 |
| No | 52 | 14.4 | 21 | 5.8 | 73 | 10.1 |
| Don't know | 6 | 1.7 | 41 | 11.4 | 47 | 6.5 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Respondent willing to take care of HIV positive female relative in the household | | | | | | |
| Yes | 298 | 82.8 | 298 | 82.8 | 596 | 82.8 |
| No | 58 | 16.1 | 19 | 5.3 | 77 | 10.7 |
| Don't know | 4 | 1.1 | 43 | 11.9 | 47 | 6.5 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Respondent willing to maintain confidentiality of a HIV positive family member | | | | | | |
| Yes | 199 | 55.3 | 188 | 52.2 | 387 | 53.8 |
| No | 156 | 43.3 | 136 | 37.8 | 292 | 40.6 |
| Don't know | 5 | 1.4 | 36 | 10 | 41 | 5.7 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Respondent willing to buy food from HIV infected shopkeeper | | | | | | |
| Yes | 276 | 76.7 | 276 | 76.7 | 552 | 76.7 |
| No | 68 | 18.9 | 51 | 14.2 | 119 | 16.5 |
| Don't know | 15 | 4.2 | 32 | 8.9 | 47 | 6.5 |
| No response | 1 | 0.3 | 1 | 0.3 | 2 | 0.3 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| HIV infected person should get the same, more or less care than someone with any other chronic disease | | | | | | |
| Same | 174 | 48.3 | 121 | 33.6 | 295 | 41 |
| More | 139 | 38.6 | 155 | 43.1 | 294 | 40.8 |
| Less | 22 | 6.1 | 9 | 2.5 | 31 | 4.3 |
| Don't know | 25 | 6.9 | 69 | 19.2 | 94 | 13.1 |
| No response | | | 6 | 1.7 | 6 | 0.8 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| HIV infected person should be allowed to continue working together | | | | | | |
| Yes | 276 | 76.7 | 222 | 61.7 | 498 | 69.2 |
| No | 64 | 17.8 | 75 | 20.8 | 139 | 19.3 |
| Don't know | 20 | 5.6 | 55 | 15.3 | 75 | 10.4 |
| No response | | | 8 | 2.2 | 8 | 1.1 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |
| Children living with HIV should be able to attend school with children who are HIV negative | | | | | | |
| Yes | 295 | 81.9 | 272 | 75.6 | 567 | 78.8 |
| No | 41 | 11.4 | 35 | 9.7 | 76 | 10.6 |
| Don't know | 23 | 6.4 | 52 | 14.4 | 75 | 10.4 |
| No response | 1 | 0.3 | 1 | 0.3 | 2 | 0.3 |
| Total | 360 | 100 | 360 | 100 | 720 | 100 |

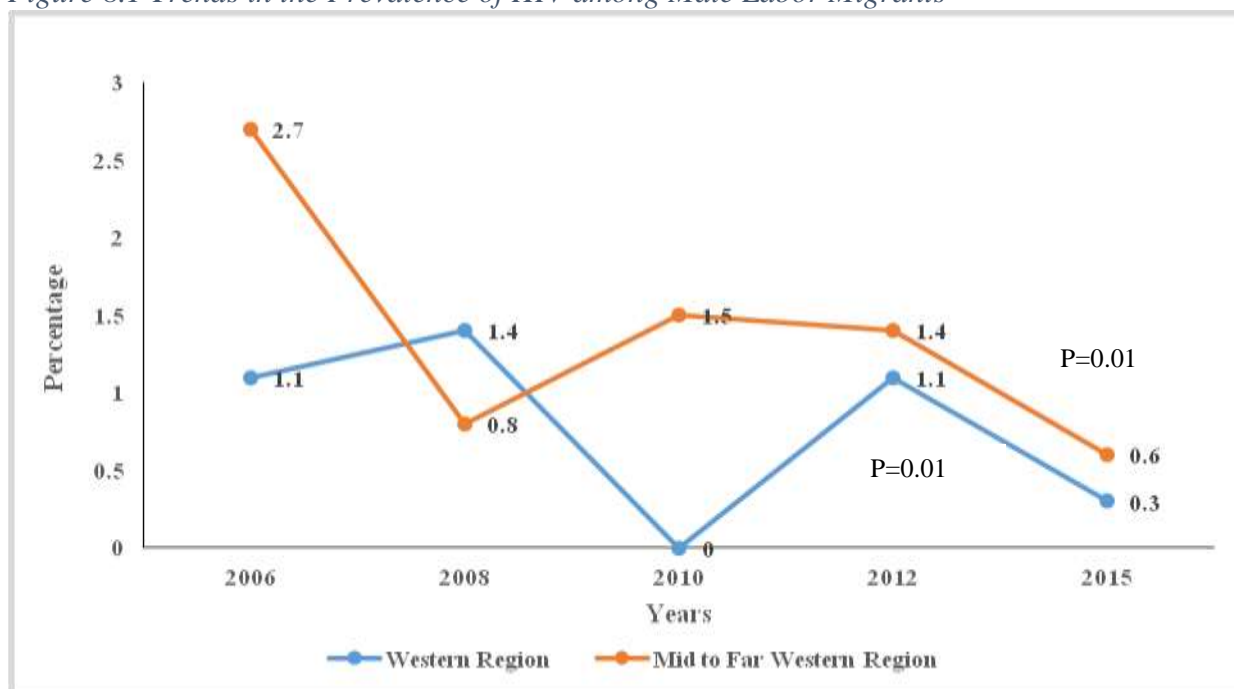
CHAPTER 8: COMPARATIVE ANALYSIS

This chapter analyzes the trends in the prevalence of HIV infection reported in different rounds of IBBS surveys carried out among MLMs. The selected indicators like prevalence of HIV, socio-demographic characteristics, migration history, condom using practices, comprehensive knowledge on HIV and exposure to HIV and AIDS prevention or awareness programs among MLM have been chosen for the comparison of all rounds of IBBS surveys. Since all the rounds of IBBS surveys among MLMs were conducted using same sampling design and sampling procedures; comparison have been made among the results of various rounds of key findings. It is customary to note that IBBS survey among MLMs -2010 was carried out only in the Mid to Far Western Region using 500 samples populations.

8.1 Prevalence of HIV among MLMs

Table 8.1 shows the trends in the prevalence of HIV infection among male labor migrants. There was increase in the prevalence of HIV among MLMs from 1.1 percent in 2006 to the 1.4 percent in 2008 in Western Region. Thereafter, its prevalence shows declining trend (1.1% in 2012 to 0.3% in 2015) in the same Region ($p=0.01$). Similarly, HIV prevalence among MLMs of the Mid to Far Western Region was 2.7 percent in 2006; which was reduced drastically to 0.8 percent in 2008. Again, its prevalence increased to 1.5 percent in 2010. Thereafter, its prevalence decreased to 1.4 percent in 2012 and it further declined to 0.6 percent in 2015 ($p=0.001$).

Figure 8.1 Trends in the Prevalence of HIV among Male Labor Migrants



Source: IBBS surveys (2006, 2008, 2012 and 2015 Surveys $N=720$ (Western =360, Mid to Far western $t=360$), 2010 Survey $N=550$ (Only Mid to Far Western))

8.2 Socio-Demographic Characteristics of MLMs

Majority of respondents were of 25 years or above in all the previous rounds of surveys in the both Western and Mid to Far Western Regions and IBBS 2015 followed the similar trend. Previous rounds of surveys showed the decreasing trend (46.3% in 2006, 38.7% in 2008 and 26.4% in 2012) in the representation of respondents less than 25 years of age in Western Region. Unlike this, the representation of MLMs less than 25 years of age was slightly

increased (26.4% in 2012 to 30.5% in 2015) in Western Region in this round of survey. Proportion of respondents aged 25 years or above has been increased (54.7% in 2012 to 72.2 percent in 2015) in Mid to Far Western Region. Mean age of the respondents remained between 27 to 32 years of age over the five rounds of surveys. The gap of median age of MLM of Western and Mid to Far Western Region participated in the survey has been decreased (≥ 1 in previous rounds of surveys; 0.5 in 2015). Percentage of ever-married respondents participating in this survey has been decreased (80.6% in 2012 to 72.8% in 2015) in the Western Region whereas increasing trend (71.7% in 2012 to 85.6% in 2015) was observed in the Mid to Far Western Region of the same attributes (Table 8.1).

Proportion of Illiterate participants was 4.4 percent in the western region in this (2015) survey. This proportion was the lowest among all rounds of surveys. On the other hand, percentage of illiterate MLMs (20%) who participated in this year has been the highest ever represented from illiterate in Mid to Far Western Region. The proportion of respondents who had some years of schooling has been increased so far in the recent years. In all the previous rounds of surveys, there was the highest representation from Brahmin/Chettri/Thakuri; Nonetheless, earlier trend has been changed in this year (2015) in Mid to Far Western Region where representation of Dalit respondents has been increased from 26.7 percent in 2012 to 44.4 percent in 2015 (Table 8.1).

This round of survey reveals that the respondents who had their first marriage at the age of ≤ 20 years was higher in Mid to Far Western Region (48.6%) than that of Western Region (28.9%). Majority of respondents were living with their wife in all rounds of surveys. Proportion of MLMs who had their first sex at the age less than 20 years was in decreasing trend in Western Region (63.4% in 2006, 54.7 % in 2008, 42% in 2012); however, there was the slight increase in the proportion of MLMs who had their sex at the age less than 20 years in Western Region (47.3% in 2015) from 42.0 percent in 2012. Meanwhile, there was slight decrease in the proportion of MLMs of the Mid to Far Western Region who had first sexual contact at the age of less than 20 years (66.8% in 2012 to 60.8% in 2015) (Table 8.1).

Table 8.1 Trend Analysis of Socio-Demographic Characteristics of MLMs

| Socio-Demographic Characteristics | 2006 | | 2008 | | 2010 | | 2012 | | 2015 | |
|--------------------------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| | Western | Mid to Far Western | Western | Mid to Far Western | Western | Mid to Far Western | Western | Mid to Far Western | Western | Mid to Far Western |
| Age of Respondents(in years) | | | | | | | | | | |
| < 25 | 46.3 | 45.5 | 38.7 | 33.8 | NA | 27.45 | 26.4 | 45.3 | 30.5 | 27.8 |
| ≥ 25 | 53.7 | 54.4 | 61.4 | 66.1 | NA | 72.55 | 73.6 | 54.7 | 69.5 | 72.2 |
| Mean | 27.8 | 27.7 | 29.6 | 29.2 | NA | 30.2 | 31.6 | 27.4 | 31.7 | 32.2 |
| Median age | 25 | 26 | 27 | 28 | NA | 33.5 | 31 | 25 | 31 | 31.5 |
| Marital Status | | | | | | | | | | |
| Ever Married | 71.9 | 84.2 | 78.1 | 88.1 | NA | 86.7 | 80.6 | 71.7 | 72.8 | 85.6 |
| Divorced/separated/ Widowed | 2.2 | 3.1 | 1.4 | 1.6 | NA | 3 | 1.1 | 1.4 | 1.7 | 2.5 |
| Never married | 25.8 | 12.8 | 20.6 | 10.3 | NA | 10.3 | 18.3 | 26.9 | 25.6 | 11.9 |
| Education | | | | | | | | | | |
| Illiterate | 7.5 | 14.2 | 10.6 | 18.6 | NA | 19.27 | 7.8 | 6.7 | 4.4 | 20 |
| Literate/no schooling | 4.7 | 2.7 | 5.3 | 4.2 | NA | 11.64 | 30.3 | 6.4 | 4.2 | 4.4 |
| Grade 1-5 | 36.7 | 33.9 | 38.9 | 36.4 | NA | 32.18 | 20 | 25.8 | 23.1 | 24.7 |

| | | | | | | | | | | |
|--|------|------|------|------|----|-------|------|------|------|------|
| Grade 6-9 | 43.3 | 41.1 | 31.1 | 35.6 | NA | 25.45 | 24.7 | 38.1 | 43.9 | 36.1 |
| SLC and above | 7.8 | 8.1 | 14.2 | 5.3 | NA | 11.64 | 17.2 | 23.1 | 24.4 | 14.7 |
| Caste/Ethnicity | | | | | | | | | | |
| Brahmin/Chettri/Thakuri | 36.9 | 46.7 | 36.6 | 49.5 | NA | 42.2 | 38.1 | 41.1 | 44.7 | 35 |
| Dalit | 20.3 | 28.9 | 22.8 | 28.3 | NA | 33.1 | 30.3 | 26.7 | 19.7 | 44.4 |
| Terai Madhesi | 11.4 | 3.3 | 7 | 2 | NA | 0.7 | 5.3 | 7.8 | 1.1 | 0.6 |
| Muslim | 5.8 | 0.8 | 3.9 | 1.1 | NA | 1.9 | 3.1 | 1.1 | 0.3 | 0.6 |
| Janajati | 25.7 | 20.3 | 29.7 | 19.3 | NA | 22.1 | 23.4 | 23.3 | 34.2 | 19.5 |
| Age at first marriage (in years) | | | | | | | | | | |
| < 20 years | 42 | 58.3 | 46.5 | 56.3 | NA | 2.73 | 36.4 | 53.2 | 28.9 | 48.6 |
| Currently living With* | | | | | | | | | | |
| With Wife | 71.4 | 84.2 | 76.4 | 87.8 | NA | NA | 65.6 | 57.8 | 71.9 | 85.6 |
| With Parents | 26.1 | 15 | 20.8 | 11.1 | NA | NA | 65.6 | 44.2 | 68.1 | 58.1 |
| With Others (children, male friends, alone, relatives and no response) | 2.5 | 0.9 | 3.4 | 1.1 | NA | NA | 65.6 | 47.8 | 61.7 | 75.6 |
| Age at first sex (< 20 years) | 63.4 | 74.9 | 54.7 | 67.8 | NA | 64 | 42 | 66.8 | 47.3 | 60.8 |

Source: 2006, 2008, 2012 and 2015 IBBS Surveys N=720 (Western =360, Mid to Far western t=360), 2010 Survey N=550 (Only Mid to Far Western)

NA: not available

8.3 Migration History of MLMs

As reported in all rounds of IBBS surveys, majority of the MLMs of both the Western and Mid to Far Western Regions were below 25 years old at the time of first migration. There was the noticeable decrease (Western Region 75.8% in 2012 to 60% in 2015 and Mid to Far Western Region 86.1% in 2012 to 65.5% in 2015) in percentage of MLMs who had their first migration at the age of less than 25 years in this round of survey. Most of the migrants of both the Western (56.1%) and Mid to Far Western (60.2%) Regions in this round of survey reported that they stayed in India for two or more years. This proportion of MLMs who stayed there in India for two or more years was higher than that was reported in all rounds of IBBS surveys (Table 8.2).

Table 8.2: Trend Analysis of Migration History of MLMs

| Descriptio n | 2006 | | 2008 | | 2010 | | 2012 | | 2015 | |
|--|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|
| | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n |
| Age at first migration (in Years) | | | | | | | | | | |
| <25 | 88.6 | 86.2 | 88.6 | 80.5 | NA | 80.9 | 75.8 | 86.1 | 60 | 65.5 |
| ≥ 25 years | 11.5 | 14 | 11.3 | 19.5 | NA | 19.1 | 24.2 | 13.9 | 40 | 34.5 |
| Mean/medi an | 18.6/18 | 19.8/19 | 18.7/18 | 19.8/19 | NA | 19.9/20 | 21.20/19 | 19.69/19 | 24/22 | 23.1/21 |
| Duration of stay in India (in Months) | | | | | | | | | | |
| <12 | 9.2 | 18.4 | 10.6 | 19.5 | NA | 24.1 | 38.3 | 63.1 | 22.2 | 20.3 |
| 13-24 | 11.9 | 16.7 | 11.4 | 14.7 | NA | 12.1 | 44.2 | 23.6 | 21.7 | 19.4 |
| >24 months | 78.9 | 65 | 78.1 | 65.8 | NA | 63.8 | 17.5 | 13.3 | 56.1 | 60.2 |

Source: 2006, 2008, 2012 and 2015 Surveys N=720 (Western =360, Mid to Far western t=360), 2010 Survey N=550 (Only Mid to Far Western)

8.4 Condom Carrying Practice and HIV Testing

The condom carrying practices of MLMs of Western Region has been improved (17.5% in 2012 to 24.4% in 2015) in the recent years. There was significantly ($P < 0.01$) decrease in the condom carrying practices of MLMs of Mid to Far Western Region and continuing the decreasing trend since 2012 (32.2% in 2010 to 31.1 in 2012 and 17.5% in 2015). Percentage of respondents who had ever had HIV test has been declined in both the Western (66.4% in 2012 to 9.5% in 2015) and Mid to Far Western Regions (63.1% in 2012 to 21% in 2015) in this round of survey (Table 8.3).

Table 8.3 Trend analysis of Condom Carrying Practice and HIV Test among MLMs

| Description | 2006 | 2008 | 2010 | 2012 | 2015 | P value |
|---|------|------|------|------|------|---------|
| Respondents carry condom usually | | | | | | |
| Western | 16.4 | 6.7 | NA | 17.5 | 24.4 | <0.01 |
| Mid-Far Western | 15.6 | 16.4 | 32.2 | 31.1 | 17.5 | <0.01 |
| Ever had an HIV Test | | | | | | |
| Western | 12.2 | 8.1 | NA | 66.4 | 9.5 | <0.01 |
| Mid- Far Western | 8.6 | 11.7 | 8.9 | 63.1 | 21 | <0.01 |

Source: 2006, 2008, 2012 and 2015 Surveys N=720 (Western =360, Mid to Far western t=360), 2010 Survey N=550 (Only Mid to Far Western)

8.5 Condom Use with Different Sex Partners

Majority of the respondents (64%) of Western Region had used condom during their last sex with FSWs in Nepal whereas only 48.4 percent of respondents of Mid to Far Western Region had used condom in their last sex with FSWs. Condom using practices with FSWs was in the increasing trend (35.3% to 64% in Western and 36% to 48.4% in Mid to Far western) among respondents of both clusters in 2012 to 2015 respectively. The respondents using condoms in the last sex with their wives has been decreased among both the Western (18.3% in 2012 to 13.5% in 2015) and Mid to Far Western Region (23% in 2012 to 12% in 2015). However, the condom using practices in last sex with girlfriend in Nepal has been increased (6.9% to 64.7% in Western Region and 19.6% to 56% in Mid to Far Western Region) in 2012 and this round of survey in both the regions. Similarly, the condom using practice with girlfriend in the last sex in India has also been increased enormously (3.9% to 68.4% in Western and 9% to 77.8% in Mid to Far Western Region) in 2012 and this round of survey. The condom using practices of migrants of Mid to Far Western Region with FSWs in India was lowest (25%) in this round of survey. Although, the proportion of migrants who used condoms in their last sex with FSWs in India has been 87.5 percent and 77.8 percent respectively in both the Western and Mid to Far Western Region in 2012, there was noticeable decrease in this (2015) round of IBBS survey. This proportion was 63 percent in Western Region and 25 percent in Mid to Far Western Region. Condom use practices among the MLMs during sex with girlfriend in India increased in 2015 than 2012 IBBS survey in both the Regions (Table 8.4).

Table 8.4 Trend analysis of Condom Use with Different Sex Partners in the Past Year

| Description | 2006 | 2008 | 2010 | 2012 | 2015 | P value |
|--|------|------|------|------|------|---------|
| Condom use with FSW in the last sex in Nepal | | | | | | |
| Western | 12.5 | 75 | NA | 35.3 | 64 | 0.01 |
| Mid-Far Western | 50 | 50 | 6.9 | 36 | 48.4 | 0.35 |
| Condom use with wife in the last sex in Nepal | | | | | | |
| Western | 12.9 | 11.3 | NA | 18.3 | 13.5 | 0.1 |
| Mid-Far Western | 12 | 14.6 | 18.3 | 23 | 12 | 0.01 |
| Condom use with girlfriend in the last sex in Nepal | | | | | | |
| Western | 47.1 | 41.7 | NA | 6.9 | 64.7 | 0.12 |

| | | | | | | |
|--|------|------|------|------|------|------|
| Mid-Far Western | 41.4 | 64 | 8.9 | 19.6 | 56 | 0.4 |
| Condom use with FSW in the last sex in India | | | | | | |
| Western | 63.6 | 80 | NA | 87.5 | 63.6 | 0.21 |
| Mid-Far Western | 71 | 66.7 | 68.4 | 77.8 | 25.0 | 0.1 |
| Condom use with Girlfriend in the last sex in India | | | | | | |
| Western | 62.5 | 87.5 | NA | 3.9 | 68.4 | 0.1 |
| Mid-Far Western | 57.1 | 58.3 | 9 | 9 | 77.8 | 0.7 |

2006, 2008, 2012 and 2015 Surveys N=720 (Western =360, Mid to Far western t=360), 2010 Survey N=550 (Only Mid to Far Western)

8.6 Comprehensive Knowledge of HIV and AIDS

The overall knowledge level of MLMs on almost all indicators has been increased than that of the previous survey of 2012. Around half of the respondents from both the Regions (53% in Western and 52.4% in Mid to Far Western) had knowledge on abstinence from sexual contact (A). Majority of respondents from Western Region than that of Mid to Far Western Region (76% Vs 63.4%) had knowledge on protecting themselves through monogamous sexual contact. Similarly, MLMs of Western Region had surpassed MLMs of the Mid to Far Western Region in the indicators of comprehensive knowledge namely; consistent use of condom during every sex (85.5% Vs 75.6%), a healthy looking person might have been infected with HIV (71.6% Vs 59.8%) and a person cannot get HIV by sharing meal with infected person (19.9% vs 25.1%). However, similar proportion (42.3% and 39.9% of respondents of Mid to Far Western and Western Regions had knowledge that HIV cannot be transmitted through mosquito bite. The respondents of Western Region had more comprehensive knowledge of ABC and BCDEF than that of Mid to Far Western Region. This round of survey revealed that the knowledge of ABC (23% Vs 36%) and BCDEF (13% Vs 21%) has been improved in Western Region from the previous IBBS survey of 2012.

Table 8.4 Comprehensive Knowledge on HIV/AIDS

| Descriptio n | 2006 | | 2008 | | 2010 | | 2012 | | 2015 | |
|--|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|
| | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n | Wester n | Mid to Far Wester n |
| A. Can protect themselves through abstinence from sexual contact | 66.1 | 61.1 | 62.5 | 64.2 | NA | NA | 42.5 | 50.2 | 53 | 52.4 |
| B. Can protect themselves through monogamous sexual contact | 71.4 | 71.1 | 71.9 | 71.7 | NA | NA | 52.1 | 70.4 | 76 | 63.1 |
| C. Can protect themselves through condom use every time during sex | 78.9 | 77.8 | 82.8 | 77.5 | NA | NA | 62.1 | 77.5 | 85.5 | 75.6 |
| D. A healthy looking person can be infected with HIV | 76.9 | 79.4 | 86.9 | 78.3 | NA | 46 | 44.3 | 47.9 | 71.6 | 59.8 |
| E. A person cannot get HIV virus from mosquito bite | 26.1 | 31.4 | 29.7 | 33.6 | NA | NA | 46.1 | 50.2 | 42.3 | 39.9 |
| F. A person cannot get HIV by sharing meal with an HIV infected person | 50 | 61.1 | 56.4 | 60.8 | NA | NA | 59.4 | 74.3 | 19.9 | 25.1 |
| Knowledge of ABC | 48.9 | 44.7 | 46.4 | 47.8 | NA | NA | 22.8 | 30.9 | 36.1 | 26.9 |
| Knowledge of BCDEF | 16.1 | 22.2 | 17.2 | 15.8 | NA | NA | 12.8 | 12.5 | 20.6 | 13.9 |

2006, 2008, 2012 and 2015 Surveys N=720 (Western =360, Mid to Far western t=360), 2010 Survey N=550 (Only Mid to Far Western)

8.7 Exposure to HIV and AIDS Related Program

Proportion of MLMs who had met or discussed with OEs /PEs in this round of survey has been declined (7.8% in 2012 to 2.8%) in both the regions in 2015. Similarly, the percentage of migrants visiting DIC has been decreased to 0.6 percent in Western and 0.3 percent in Mid to Far Western Region. None of the respondents in this round of IBBS had visited STI clinic in Western Region whereas 0.8 percent had visited in Mid to Far Western Region. The respondents who had visited HTC center have been dropped to 0.3 percent in Western and 1.1 percent in Mid to Far Western Region .Proportion of the MLMs who had ever met with CHBC workers in the house has been decreased in both Western (1.7% in 2012 to 0.6% in 2015) and Mid to Far Western (5.6% in 2012 to 1.4% in 2015) (Table 8.5).

Table 8.5 Comprehensive Knowledge on HIV and AIDS

| Description | 2006 | 2008 | 2010 | 2012 | 2015 | P value |
|--|-------------|-------------|-------------|-------------|-------------|----------------|
| Met or discussed with OEs/PEs | | | | | | |
| Western | NA | 1.9 | NA | 7.8 | 2.8 | 0.01 |
| Mid to Far western | NA | 15 | 9.6 | 9.2 | 2.8 | 0.01 |
| Visited DIC | | | | | | |
| Western | NA | 0.3 | NA | 3.9 | 0.6 | 0.01 |
| Mid to Far western | NA | 0.6 | NA | 0.8 | 0.3 | 0.62 |
| Visited STI Clinic | | | | | | |
| Western | NA | 1.7 | NA | 1.1 | 0 | 0.13 |
| Mid to Far western | NA | 4.2 | NA | 2.2 | 0.8 | 0.22 |
| Visited HTC centre | | | | | | |
| Western | NA | 0.3 | NA | 1.1 | 0.3 | 0.37 |
| Mid to Far western | NA | 2.8 | NA | 2.2 | 1.1 | 0.27 |
| Ever met with CHBC workers in the house | | | | | | |
| Western | NA | 0 | NA | 1.7 | 0.6 | 0.22 |
| Mid to Far western | NA | 3.6 | NA | 5.6 | 1.4 | 0.27 |

2006, 2008, 2012 and 2015 Surveys N=720 (Western =360, Mid to Far western t=360), 2010 Survey N=550 (Only Mid to Far Western)

CHAPTER 9: SUMMARY OF MAJOR FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

9.1 Summary of Major Findings

HIV prevalence

Out of 720 Male Labor Migrants (MLM) who participated in this survey, 3(0.4%) were identified as HIV positive. Prevalence of HIV infection among the MLMs of Mid to Far Western Region (0.6%) was higher than the respondents of the Western Region (0.3%).

Socio-demographic characteristics

Mean age of the respondent was 32.0 ± 9.1 years. Two-fifths of the MLMs had 6-9 years of formal schooling while 12.2 percent of them were illiterate. Illiteracy was more frequently observed among the respondents of Mid to Far Western Region (20%) than the Western Region (4.4%). Brahmins/Chhetri accounted for the highest proportion of respondents in Western Region (44.7%) whereas Dalits accounted for 44 percent of the MLMs of Mid to Far Western Region.

Migration history

Maharashtra (47.5%) and Delhi (36.8%) were the major destination for migration among MLMs. Mean duration of stay in India was 58.7 months and the respondents of Western Region had longer period of stay (61.7 months) than that of the respondents of Mid to Far Western Region (55.8 months). Mean age at first migration was 23.6 ± 7.7 years. Most of the MLMs (64.9%) used to work as laborer or factory workers in India. Nearly half (46.2%) of the MLMs were stayed in the places of migration for more than 4 months when they were migrated with in Nepal. Among those internal migrants in Nepal, 46.2 percent of them worked as daily labors.

Marriage and Sexual behavior

Nearly forty (39.5%) percent of MLMs had got marriage before completing 20 years of age and this proportion was considerably higher among the MLMs of Mid to Far Western Region (46.7%) than the MLMs of Western Region (28.5%). Almost 80 percent MLMs were living together with their wives. More than nine out of every ten MLMs (91.1%) had ever had sex with female. Almost 54 percent of the respondents had first sexual contact before 20 years of age. Mean age of the respondents at the first sex was 19.7 ± 3.5 years.

Sexual Contact and Condom Use in Nepal

Almost eight percent of the MLMs had ever had sex with FSWs in Nepal. Out of those MLMs who had ever had sex with FSWs in Nepal, more than four-fifths (80.4%) of them had contact with two or more FSWs. In an average, MLMs had sexual contact with 4.5 ± 4 FSWs in Nepal. Slightly more than half (55.4%) of the MLMs who had sex with FSWs in Nepal had used condom and almost two-fifths (39.3%) of those who had sex with FSWs in the past one year had used condom consistently.

Sexual Contact and Condom Use in India

About 11 percent of the MLMs had ever had sex with FSWs in India. Three-quarters of the MLMs who had ever had sex with FSWs in India had sex with two or more FSWs in their lifetime. In an average, MLMs had sex with 4.5 ± 4 FSWs; with range being 2-9. Almost 6 percent of the MLMs had sex with FSWs in India in the past year; out of them, only 45.2 percent had used condom during the last sex. Almost nine-tenth (89.5%) of the respondents

who used condom in the last sex had used the same with their own decision. A total of 72.7 percent respondents had used condom consistently in the sex with FSWs in India in the last year.

Availability of Condom

A total of 21 percent MLMs always used to carry condoms when attempt for sex. Slightly more than seven out of every ten (71.4%) respondents availed condoms from the Health Post/Primary Health Care Centre and 55.3 percent received the condoms from pharmacies. Less than one-fifth (18.2%) of the MLMs obtained condoms free of cost and 15.7 percent of them availed by purchasing from different sources.

Knowledge of STI, HIV and AIDS and Treatment of STIs Treatment

Nearly 82 percent of the MLMs had heard about HIV and AIDS. Major sources of information to get the knowledge about HIV and AIDS were Radio (47.6%), Friends (40.8%), Television (27.6%), Teachers/School (25.7%) and the Internet (19.7%). A total of 31.5 percent respondents had knowledge of all the three ABCs of HIV and AIDS. Less than one-fifth (17.2%) of the respondents had knowledge of all the five components (BCDEF) of HIV prevention and control. Commonly understood conditions/symptoms of STIs among MLMs were; HIV and AIDS (50.4%), Syphilis (24%) and ulceration around the genitalia (16.1%). One percent of the MLM complained the presence of white discharge or pus from the genitalia and 1.1 percent had burning urination. Out of 15 MLMs who experienced some symptoms of STIs in the past one year, one-third (33.3%) of them had received the treatment against these symptoms of STIs. Almost three-fifths (57.1%) of the respondents had received treatment from private clinics and two-fifths (42.9%) had received the treatment from hospitals. A total of 71.4 percent respondents had received counseling services.

Use of Alcohol and Drugs

More than two-thirds of the respondents (67.6%) had drunk alcohol in the past one month. Out of those alcohol consumers, 11 percent of them were daily consumers and 17.4 percent were intermittent consumers (2-3 times/ week). About 2.8 percent of the respondents had ever tried to consume any type of illicit drugs in the past one month. Almost 8 percent of the respondents used to drink alcohol every day during their last stay in India.

Exposure to STI, HIV and AIDS Program

Only 2.8 percent of the respondents had ever met or discussed or interacted with peer educators or outreach educators and 0.3 percent of them visited to the Drop in Centers in the last 12 months. Only 0.7 percent of the respondents had visited to the HIV testing and Counseling Centers within last 12 months. Similarly, 2.8 percent of the respondents had ever heard about PMTCT services. Out of those MLMs who had heard about PMTCT services, more than half of them (55.0%) were known about the availability of these services. Nearly 11 percent of the respondents had heard about the Anti-retroviral Therapy services. Only 2.1 percent of the respondents had ever heard about the viral load testing services and 2.2 percent of them had heard about the Community and Home Based Care.

Stigma against HIV and AIDS

Majority of the respondents (83.3%) had willingness to take care of male HIV positive and 82.8 percent of the respondents expressed their willingness to take care of HIV positive female relatives in the household. About 54 percent of the MLMs were willing to maintain confidentiality of HIV infection of their family member and nearly 77 percent of the MLMs expressed their willingness to buy food from HIV infected Shopkeeper. About 41 percent of the respondents opined that HIV infected person should get the same kinds of health care as other

HIV negative people. Almost seventy percent respondents opined that HIV infected person should be allowed to work together with non-infected people. Almost four-fifths (78.8%) of the respondents stated that the children living with HIV infection should be allowed to attend the classes in schools along with HIV negative students.

9.2 Conclusions

Series of IBBS surveys among MLMs have been conducted under the leadership of NCASC since last decade. This survey provides an insight into the estimated prevalence of HIV among these vulnerable groups and is also an assessment of sexual risk behaviors prevalent among the survey populations. A cross-sectional quantitative survey method was utilized in this study. In this survey, both the behavior related structure questionnaire and biological laboratory examination were performed to gather data.

Out of 720, 3 MLMs (0.4%) had HIV infection. Prevalence of HIV infection among the MLMs of the Mid to Far Western Region (0.6%) was higher than that was identified among the respondents of the Western Region (0.3%). MLM mean age was 32.0 years. Two-fifths of the MLMs had 6-9 years of formal schooling while 12.2 percent respondents were illiterate. Dalits accounted for 44 percent of the respondents of the Mid to Far Western Region. Maharashtra (47.5%) and Delhi (36.8%) were major destination for migration; 35.4% of the MLMs were migrated to India for the first time before 20 years of age. Mean age at first migration was 23.6 years. Nearly 80 of the respondents were married and living together. Mean age of the respondents at first marriage was 20.9 years. More than ninety percent of the MLMs had ever had sex with female and more than half of the respondents who had ever had sex with female had first sexual contact before 20 years of age. About 8 percent and 11 percent of the MLMs had ever had sex with FSWs in Nepal and India respectively. About 45 percent and 73 percent of the respondents used condom consistently in Nepal and India respectively. A total of 21 percent respondents always used to carry condoms for every sexual attempt. Only 18 percent of the respondents obtained condom free of cost.

A total of 81.7 percent of the respondents had ever heard about AIDS. Major sources of information to get the knowledge about HIV were Radio (47.6%) and Friends (40.8%). Ulceration around the genitalia (16.1%), syphilis (24%) and HIV and AIDS (50.4%) were the common Conditions/symptoms of STIs reported by MLMs. Only one-third (33.3%) of those who had symptoms of STIs had received the treatment against these conditions and 71.4 percent of them had received counseling services. Only 31.5 percent of the respondents had knowledge of all the three ABCs of the HIV prevention and 17.2 percent of them had knowledge of all the five components (BCDEF) of HIV prevention.

9.3 Recommendations

Eight and Eleven percent MLMs had sex with FSWs in Nepal and India respectively. This is considered as a high-risk behavior in the context of the high prevalence of HIV among the female sex workers in India and Nepal. The labor migrants should therefore be made aware about the risk of acquiring HIV and its transmission to their spouses. Thus, the community-focused HIV prevention programs should be implemented to address unsafe sexual behavior and behavior change communication through interpersonal communication and mass media.

Nearly 30 percent MLMs did not use condom during sexual intercourse with FSWs in India, similarly, 93 percent of the MLMs did not use condom with their wives. Most of them stated that they 'didn't think it was necessary/didn't think of it' as the reason for not using condoms. Such behavior not only exposes the labor migrant to the risk of HIV infection, but it also possesses the elevated risk of HIV transmission to their wives. To address this issue, an

intensive educational program that focuses not only the labor migrants but also their wives should be implemented in areas where the migration is quite high.

Proper knowledge of modes of transmission of HIV and means of prevention was still low among the labor migrants. For example, only one third of the respondents in both regions knew all three 'ABCs' and less than two-fifth of the respondents knew all five major indicators 'BCDEF' of HIV and AIDS. The program should address this aspect in a vigilant way. Furthermore, programs focusing on raising awareness activities among MLMs needs to be geared up for regaining the previous status and to enhance their knowledge and modify their behaviors to improve protective behaviors.

Only 3 percent MLMs had interaction or meet with PEs/OEs in last 12 months and very few MLMs were informed about PMTCT services (2.8%), ART services (10.7%), visited HTC centers and STIs treatment service (0.7%) and (0.4%), Viral Load Testing Services (2.1%) and CHBC (2.2%). Hence, outreach activities, mobile HTC and STI services should be organized to increase the access and utilization services rendered for MLMs in migration dense districts.

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ANNEXES

Annex-1: List of selected clusters

Sample Clusters from the Western Region

Sample Interval: 7334

First Random Number: 1370

| District | Serial No. (CBS) | VDCs Name | Total migrants (Male) | Estimated (2015) | Selected Clusters | Random Number |
|------------|------------------|---------------------|-----------------------|------------------|-------------------|---------------|
| Syangja | 2 | Arjun Chaupari | 967 | 1021 | 1 | 1370 |
| Syangja | 16 | Chinnebas | 809 | 854 | 1 | 8704 |
| Syangja | 25 | Kalikakot | 727 | 767 | 1 | 16038 |
| Syangja | 35 | Manakamana | 654 | 690 | 1 | 23372 |
| Syangja | 44 | PutalibazarNP | 3820 | 4032 | 1 | 30706 |
| Syangja | 52 | ShreekrishnaGandaki | 1164 | 1229 | 1 | 38040 |
| Syangja | 60 | Waling NP | 3407 | 3596 | 1 | 45374 |
| Kaski | 7 | Dangsing | 322 | 340 | 1 | 52708 |
| Kaski | 21 | Lamachaur | 804 | 849 | 1 | 60042 |
| Kaski | 22 | LekhnathNP | 6578 | 6943 | 1 | 67376 |
| Kaski | 32 | Pokhara Sub-Metro | 21540 | 22735 | 3 | 74710 |
| Kaski | 39 | Sarangkot | 680 | 718 | 1 | 96712 |
| Palpa | 10 | Bodha pokharathowk | 427 | 451 | 1 | 104046 |
| Palpa | 22 | Foksinghkot | 785 | 829 | 1 | 111380 |
| Palpa | 34 | Jymire | 456 | 481 | 1 | 118714 |
| Palpa | 50 | Pipaldada | 873 | 921 | 1 | 126048 |
| Palpa | 62 | TansenNP | 2358 | 2489 | 1 | 133382 |
| Kapilbastu | 10 | Baskhore | 486 | 513 | 1 | 140716 |
| Kapilbastu | 34 | Hathausa | 587 | 620 | 1 | 148050 |
| Kapilbastu | 50 | Bhalwad | 779 | 822 | 1 | 155384 |
| Kapilbastu | 68 | Shivagadhi | 517 | 546 | 1 | 162718 |
| Gulmi | 8 | Arkhole | 1025 | 1082 | 1 | 170052 |
| Gulmi | 17 | Bhurtung | 737 | 778 | 1 | 177386 |
| Gulmi | 28 | Nayagau | 875 | 924 | 1 | 184720 |
| Gulmi | 39 | Hansara | 518 | 547 | 1 | 192054 |
| Gulmi | 50 | Johang | 864 | 912 | 1 | 199388 |
| Gulmi | 62 | Pallikot | 681 | 719 | 1 | 206722 |
| Gulmi | 73 | Sirsieni | 452 | 477 | 1 | 214056 |

Total

30

Sample Clusters from the Mid to Far Western Region

Sample Interval: 5908

First Random Number: 4945

| District | Serial No.(CBS) | VDCs Name | Total migrants (Male) | Estimated (2015) | Selected Cluster | Random number |
|------------|-----------------|--------------------|-----------------------|------------------|------------------|---------------|
| Banke | 11 | Chisapani | 211 | 223 | 1 | 4945 |
| Banke | 31 | Naubasta | 1218 | 1286 | 1 | 10853 |
| Banke | 43 | Sitapur | 1137 | 1200 | 1 | 16761 |
| Surkhet | 8 | Birrendra NP | 1453 | 1534 | 1 | 22669 |
| Surkhet | 21 | Guthu | 544 | 574 | 1 | 28577 |
| Surkhet | 37 | Mentada | 1667 | 1759 | 1 | 34485 |
| Surkhet | 50 | Tatopani | 620 | 654 | 1 | 40393 |
| Kailali | 3 | Beladevipur | 649 | 685 | 1 | 46301 |
| Kailali | 7 | Chaumala | 2582 | 2725 | 1 | 52209 |
| Kailali | 10 | Dhangadhi NP | 4214 | 4448 | 1 | 58117 |
| Kailali | 15 | Godawari | 2327 | 2456 | 1 | 64025 |
| Kailali | 23 | Malakheti | 1879 | 1983 | 1 | 69933 |
| Kailali | 31 | Pathariya | 2417 | 2551 | 1 | 75841 |
| Kailali | 35 | Ramshikharjhala | 1185 | 1251 | 1 | 81749 |
| Kailali | 42 | Tikapur NP | 5713 | 6030 | 1 | 87657 |
| Kailali | 43 | Udasipur | 346 | 365 | 1 | 93565 |
| Kanchanpur | 4 | Daijee | 2473 | 2610 | 1 | 99473 |
| Kanchanpur | 6 | Dodhara | 2436 | 2571 | 1 | 105381 |
| Kanchanpur | 9 | Krishnapur | 2599 | 2743 | 1 | 111289 |
| Kanchanpur | 11 | Bhimdatta NP | 6001 | 6334 | 1 | 117197 |
| Kanchanpur | 14 | RaikawarBichawa | 1230 | 1298 | 1 | 123105 |
| Kanchanpur | 20 | Tribhuwanbasti | 1742 | 1839 | 1 | 129013 |
| Doti | 13 | DipayalSilgadhi NP | 2275 | 2401 | 1 | 134921 |
| Doti | 26 | Kapalleki | 438 | 462 | 1 | 140829 |
| Doti | 40 | Pachanali | 485 | 512 | 1 | 146737 |
| Achham | 5 | Basti | 589 | 622 | 1 | 152645 |
| Achham | 24 | Dhodasain | 385 | 406 | 1 | 158553 |
| Achham | 38 | Kalikaasthan | 326 | 344 | 1 | 164461 |
| Achham | 55 | Patalkot | 190 | 201 | 1 | 170369 |
| Achham | 71 | Toli | 346 | 365 | 1 | 176277 |
| Total | | | | | 30 | |

Annex-2: Survey tools

INTEGRATED BIOLOGICAL AND BEHAVIORAL SURVEILLANCE SURVEY (IBBS) AMONG MALE LABOR MIGRANTS IN WESTERN AND MID TO FAR WESTERN REGION OF NEPAL – 2015

Clinical/Lab Checklist for Male Labor Migrants

Respondent ID Number:

Name of Clinician: _____ Date: 2072/_____/_____

Name of Lab Technician: _____

(A) Clinical Information

(B) Specimen collection

Weight: _____ Kg.

| | Yes | No |
|--------------------|-----|----|
| Pre test counseled | 1 | 2 |

Blood collected for
B.P. : _____mm of Hg.

| | | |
|----------|---|---|
| HIV test | 1 | 2 |
|----------|---|---|

Date and place for
Pulse : _____

| | | |
|-------------------------|---|---|
| Post-test results given | 1 | 2 |
|-------------------------|---|---|

Condom given

| | |
|---|---|
| 1 | 2 |
|---|---|

Temperature : _____

____°F

Vitamins given

| | |
|---|---|
| 1 | 2 |
|---|---|

Gift Given

| | |
|---|---|
| 1 | 2 |
|---|---|

IEC materials given

| | |
|---|---|
| 1 | 2 |
|---|---|

1.0 Syndromic Treatment Information

101. Did you have discharge from your penis or burning sensation when you urinate in the past one-month?
1. Yes 2. No

(If yes, give treatment for gonorrhoea and chlamydia)

102. Did you have sore or ulcer or warts round your genitals in the past one-month?

1. Yes 2. No

(If yes, Refer)

Respondents ID Card

| | | | |
|--|-----|----|--|
| ID: | | | |
| Date: | | | |
| Consented for Laboratory Test: | Yes | No | |
| Consented for Interview: | Yes | No | |
| Respondent wants consultation with STI Technician: | Yes | No | |
| If yes, Which services were asked?..... | | | |
| Interviewer Name: | | | |
| | | | |

Respondents ID Card

| | | | |
|--|-----|----|--|
| ID: | | | |
| Date: | | | |
| Consented for Laboratory Test: | Yes | No | |
| Consented for Interview: | Yes | No | |
| Respondent wants consultation with STI Technician: | Yes | No | |
| Interviewer Name: | | | |
| | | | |

Confidential

**National Centre for AIDS and STD Control (NCASC), Ministry of Health and Population
(MOHP), Government of Nepal**

**INTEGRATED BIOLOGICAL AND BEHAVIOUAL SURVEILLANCE (IBBS) SURVEY
AMONG MALE LABOR MIGRANTS IN WESTERN AND MID TO FAR WESTERN REGION,
NEPAL-2015**

Namaste! My name is.....,I am here from.....to collect data for a research study. This study is being conducted by.....and National Centre for AIDS and STD Control (NCASC), Ministry of Health and Population. As explained in the consent taking process, during this data collection, I will ask you some questions that will be about sexual behavior, use and promotion of condoms, STI, HIV and AIDS, drugs and migration pattern. I believe that you will provide correct information only. We will also draw few drops of blood for HIV testing. If 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 because your name will not be mentioned in this form and blood sample. It will take about 60 minutes to complete the interview and blood sample collection.

You are free to quit the survey any time you want to. You do not have to answer questions that you do not want to answer. But I hope you will participate in this survey and make it success by providing correct answers of all the questions.

Would you be willing to participate? 1.Yes 2.No

Signature of Interviewer: _____ Date:2072/ ____/ _____

Definition of Respondent “Men aged between 18to49 years who have gone to India for work for at least three months and have returned home within the last three years”.

Name of interviewer: _____ Code No .of Interviewer

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

Date of Interview: 2072/ __/ _____

Checked by the supervisor: Signature: __ Date:2072/ ____/ _____

1.0 GENERAL INFORMATION

| No. | Questions and Filters | Coding Categories | Skip To |
|-------|--|---|---------|
| 101 | Respondent ID No. | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | |
| 102 | Interview Starting Time Interview Completion Time | | |
| 103 | Where were you born? | District _____ VDC/Municipality _____ Ward No. <input type="text"/> <input type="text"/> Village/Tole _____ | |
| 104 | Where do you live now? (Name of Current Place of Residence) | Districts: _____ VDC/Municipality: _____ Ward No. <input type="text"/> <input type="text"/> Village/Tole: _____ | |
| 104.1 | For how long have you been living in this district? | Number of months ... <input type="text"/> <input type="text"/> (Record "00" if less than 1 Month) Since birth Don't remember/know No response | |
| 104.2 | Before you moved here, where did you live? | Districts: _____ VDC/Municipality: _____ Don't remember/know No response | |

2.0 PERSONAL INFORMATION

| No. | Questions and Filters | Coding Categories | Skip To |
|-----|-----------------------|---|---------|
| 201 | How old are you? | Age <input type="text"/> <input type="text"/> <i>(write the completed years)</i> | |
| 202 | What is your caste? | Ethnicity/Caste____ | |

| No. | Questions and Filters | Coding Categories | Skip To |
|-----|--|--|---------|
| | (Write code no. as per Ethnicity/Caste Manual) | (Specify) Code No <input type="text"/> <input type="text"/> | |
| 203 | What is your educational status? (Circle "00" if illiterate, '19' for the literate without attending the school, and write exact number of the completed grade) | Illiterate 0 Literate 19 Grade <input type="text"/> <input type="text"/> <i>(write the completed grade)</i> | |
| 204 | What is your present marital status? | Married 1 Divorced/Permanently Separated 2 Widower 3 Never married 4 | 206 |
| 205 | How old were you when you were first married? | Age <input type="text"/> <input type="text"/> <i>(write the completed years)</i> | |
| 206 | With whom are you staying currently? | With wife 1 With male friends 2 With female friends 3 Alone 4 With parents 5 With children 6 Others (Specify) _____ 96 | |
| 207 | How many dependents are there in your family? | Number <input type="text"/> <input type="text"/> | |

3.0 WORK AND MIGRATION

301 Mention first place of work at first. Write detail description of each location and duration in this table

| Visited Country | Visited Cities | | | Date of Visited | | Months Spent Abroad | Date of Returned Back to | | Months Spent in Nepal | Type of Work Abroad |
|-----------------|----------------|------|-------------|-----------------|-------|---------------------|--------------------------|-------|-----------------------|---------------------|
| | State | City | Nearby City | Year | Month | | Year | Month | | |
| | | | | | | | | | | |

| | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
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| | | | | | | | | | | |

| No. | Questions and Filters | Coding Categories | Skip to |
|-----|--|---|---------|
| 302 | How old were you when you had gone abroad for Work for the first time? | Age..... <input type="text"/> <input type="text"/> <i>(write the completed years)</i> | |
| 303 | Last time when you were abroad, how much did You earn per month in your last job? | Runees... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <i>(If it is IC convert it into NC)</i> | |
| 304 | When did you last come back to Nepal? (If less than a month, write'00') | Months ago..... <input type="text"/> <input type="text"/> Don't know..... 98 | |
| 305 | Last time when you were abroad, how often did you have drinks containing alcohol? | Everyday.....1 2-3timesaweek.....2 At least once a week.....3 Less than once a week.....4 Never.....5 | |
| 306 | Last time when you were abroad, with whom did you live? | Alone.....1 With wife.....2 With other woman.....3 With friends.....4 With relative.....5 Others.....96 | |
| 307 | Will you be going abroad again for work? | Yes.....1 No.....2 Don't know..... 98 | |
| 308 | After your return from abroad have you ever lived in any other place in Nepal for work? (Other place means different from currently living place where the respondent has stayed | Yes.....1 No.....2 Don't know..... 98 | 401 |

309. Where did you work in Nepal and for how long?
(First time returned back from abroad to till now)

Mention first place of work at first. Write detail description of each location and duration in this

table.

| When did you go | | Visited Cities and Duration | | | Type of Work |
|-----------------|-------|-----------------------------|------------------|--------------|--------------|
| Year | Month | District | VDC/Municipality | Months Spent | |
| | | | | | |
| | | | | | |
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4.0 INFORMATION ON SEXUAL BEHAVIORS

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|--|---|---------|
| 401 | Did you ever have had sexual intercourse with a woman? (If answer is 'No' Probe) | Yes.....1 No.....2 | 530 |
| 402 | How old were you at your first sexual Intercourse? (In completed years) | Year's old <input type="text"/> <input type="text"/> Don't know/can't recall98 | |
| 403 | Have you ever had sex with a sex worker? (If answer is 'No' Probe) | Yes.....1 No.....2 | 530 |

Sexual Behavior with Female Sex Workers in Nepal

| | | | |
|-----|--|--|-----|
| 404 | Did you ever have had sex with a female sex worker in Nepal? (If answer is 'No' Probe) | Yes.....1 No.....2 | *10 |
| 405 | In Nepal, about how many female sex workers Did you have sex within your lifetime? | Number <input type="text"/> <input type="text"/> | |
| 406 | In Nepal, did you have sex with a female sex Worker in the past year? | Yes.....1 No.....2 | *10 |
| 407 | During past one year, how many female sex Workers did you have sexual intercourse with in Nepal? | Number..... <input type="text"/> <input type="text"/> | |
| 408 | How many times did you have sex with female Sex worker in the past 12 months in Nepal? | Times..... <input type="text"/> <input type="text"/> | |

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|-----------------------|-------------------|---------|
|------|-----------------------|-------------------|---------|

| | | | |
|-----|---|--|--|
| 409 | Where did you meet the female sex worker with Whom you had your last sexual intercourse in Nepal? | Lodge/Hotel.....1 Eating-place(Restaurant).....2 Bhatti(Liquor shop).....3 On the street.....4 Forest.....5 Workplace.....6 Others.....96 (Specify) | |
|-----|---|--|--|

Sexual Behavior with Female Sex Workers when living abroad

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|--|--|---------|
| 410. | Did you ever have sex with female sex workers abroad?(If answer is 'No' Probe) | Yes.....1 No.....2 | 501 |
| 411 | With about how many female sex workers have you had sex with so far when you were abroad? | Number <input type="text"/> | |
| 412 | Did you have sex with a female sex worker When abroad in the past year? | Yes.....1 No.....2 | 501 |
| 413 | During the past one year how many female sex workers did you have sexual intercourse abroad? | Number <input type="text"/> | |
| 414 | During the past one year how many times did You have sex with female sex workers abroad? | Times | |
| 415 | In which places did you have sex with female sex workers during the past one year of your stay abroad? | Name of Country City/ Nearby City | |
| 416 | Where did you meet that last sex worker for Sexual intercourse? | Lodge/Hotel.....1 Eating-place(Restaurant).....2 Bhatti(Liquor shop).....3 On the street4 Forest.....5 Brothel.....6 Workplace.....7 Others.....96 (Specify) | |
| 417 | During your stay abroad, did you usually go to sex workers alone or with friends? | Alone..... 1 With Friends..... 2 | |

5.0 USE OF CONDOM WITH SEX PARTNERS

Condom Use with Wife

Note: If the answer is other than married in Q.204, Go to Q.505

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|--|--------------------------|---------|
| 501 | During the past one-year have you had sexual intercourse with your wife? | Times No.....98 | |



| | | | |
|-----|---|--|-------|
| 502 | Did you use condom in your last sexual Intercourse with your wife? | Yes.....1 No.....2 | →504 |
| 503 | Who suggested condom use at that time? | Myself.....1 My wife.....2 Don't know..... 98 | } 505 |
| 504 | Why didn't you use condom at that time? | Not available.....1 Too expensive2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary.5 Didn't think of it.....6 Others_____96 (Specify) Don't know..... 98 | } → |
| 505 | Over the last one year, how often did you use condom while having sex with your wife? | All the time.....1 Most of the time.....2 Sometimes.....3 Rarely.....4 Never.....5 | →507 |
| 506 | Why you did not use condom always? (Multiple answers. Do not read the possible answers) | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary.5 Didn't think of it.....6 Others_____96 (Specify) Don't know..... 98 | |

Condom Use with Female Sex Worker in Nepal

Note: If the answer is 'No' in Q. 403 or 404 or 406, then Go to Q.507

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|--|--|---------|
| 507 | Did you use condom in your last sexual Intercourse with a sex worker in Nepal? | Yes.....1 No.....2 | 509 |
| 508 | Who suggested condom use at that time? | Myself.....1 My Partner.....2 Don't know..... 98 | 510 |



| | | | |
|-----|--|--|-----|
| 509 | Why didn't you use condom that time? | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary .5 Didn't think of it.....6 Others_____96 (Specify) Don't know..... 98 | |
| 510 | Over the last 1 year, how often did you use Condom while visiting sex workers in Nepal? | All the time.....1 Most of the time.....2 Sometimes3 Rarely.....4 Never.....5 | 512 |
| 511 | Why didn't you use condom always? (Multiple answers. Do not read the possible answers) | Not available.....1 Too expensive.....2 Partner objected.....3 I didn't like to use it.....4 Didn't think it was necessary .5 Didn't think of it.....6 Others_____96 (Specify) Don't know..... 98 | |

Condom Use with Girl Friend /Lover in Nepal

| | | | |
|-----|--|--|------|
| 512 | During the past 1 year, did you have sexual Intercourse with your girlfriend in Nepal? | Yes.....1 No.....2 | →518 |
| 513 | Over the last 1 month, how many times did you have sexual intercourse with your girlfriend? (Write '00' if there is no sexual intercourse with girlfriend in last 30 | Number of times <input type="text"/> Don't know..... 98 | |
| 514 | Did you use condom in your last sexual Intercourse with your girlfriend in Nepal? | Yes.....1 No.....2 | 516 |
| 515 | Who suggested condom use at that time? | Myself.....1 My Partner.....2 Don't know..... 98 | 517 |

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|-----------------------|-------------------|---------|
|------|-----------------------|-------------------|---------|

| | | | |
|-----|---|--|----------|
| 516 | Why didn't you use condom at that time? | Not available1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary .5 Didn't think of it.....6 Others _____96 (Specify) Don't know..... 98 | → |
| 517 | Over the last 12 months, how often did you use Condom while having sex with your girlfriend in Nepal? | All the time.....1 Most of the time.....2 Sometimes3 Rarely.....4 Never.....5 | 511 → |

Condom Use with Female Sex Worker During Abroad Stay

Note: If the answers is 'NO' in 403 or 410 or 412, then go to question no. 523)

| | | | |
|-----|--|--|-------------|
| 518 | Did you use condom in your last sexual Intercourse with sex worker when you were abroad? | Yes.....1 No.....2 | → 520 |
| 519 | Who suggested condom use at that time? | Myself..... <input type="checkbox"/> My Partner.....2 Don't know..... 98 | } 521 |
| 520 | Why didn't you use condom at that time? | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary .5 Didn't think of it.....6 Others _____96 (Specify) Don't know..... 98 | → } → |
| 521 | Over the last 1 year, how often did you use Condom while visiting sex workers abroad? | All the time.....1 Most of the time.....2 Sometimes3 Rarely.....4 Never.....5 | 523 |
| 522 | Why didn't you use condom always? (Multiple answers. Do not read the possible answers) | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary ..5 Didn't think of it.....6 Others _____96 (Specify) Don't know..... 98 | |

Condom Use with Girl Friend During Abroad Stay

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|--|---|---------|
| 523 | Over the past 1 –year did you have sexual Intercourse with your girlfriend abroad? | Yes.....1 No.....2 | →530 |
| 524 | Over the last 1 month, how many times did you have sexual intercourse with your girlfriend abroad? (Write '00' if there is no sexual intercourse with girlfriend in last | Number of time..... <input type="text"/> Don't know..... 98 | } |
| 525 | Did you use condom in your last sexual Intercourse with your girlfriend abroad? | Yes.....1 No.....2 | |
| 526 | Who suggested condom use at that time? | Myself.....1 My Partner.....2 Don't know..... 98 | }528 |
| 527 | Why didn't you use condom at that time? | Not available.....1 Too expensive2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary .5 Didn't think of it.....6 Others _____ 96 (Specify) Don't know..... 98 | |
| 528 | Over the last 1 year, how often did you use condom while having sex with your girlfriend abroad? | All the time.....1 Most of the time.....2 Sometimes3 Rarely.....4 Never.....5 | →530 |
| 529 | Why you did not use condom always? (Multiple answers. Do not read the possible answers) | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary ..5 Didn't think of it.....6 Others _____ 96 (Specify) Don't know..... 98 | |

Condom Use with Male Partner in Nepal

| | | | |
|-----|--|--|------|
| 530 | During the past one-year did you have anal sex With a male partner in Nepal? | Yes.....1 No.....2 | →537 |
| 531 | Over the last 1 month, how many times did you Have anal sex with male partner in Nepal? (Write '00' if there is no anal sex with male partner in last 30 days) | Number of time..... <input type="text"/> Don't know..... 98 | |
| 532 | Did you use a condom in your last anal sex with Your male partners in Nepal? | Yes.....1 No.....2 | →534 |

| | | | |
|-----|--|--|-------|
| 533 | Who suggested condom use at that time? | Myself.....1 My Partner.....2 Don't know..... 98 | } 535 |
| 534 | Why didn't you use condom at that time? | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary..5 Didn't think of it.....6 Others _____ _____ 9 6 (Specify) Don't know..... 98 | |
| 535 | Over the last 1 year, how often did you use Condom with male partner/s in Nepal? | All of the time.....1 Most of the time.....2 Some of the time3 Rarely.....4 Never.....5 | → 537 |
| 536 | Why didn't you use condom at that time? | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary..5 Didn't think of it.....6 Others _____ | |

Condom Use with Male Partner during Abroad Stay

| | | | |
|-----|--|--|-------|
| 537 | During the past one-year did you have anal sex with male partner when you were abroad? | Yes.....1 No.....2 | → 547 |
| 538 | Over the last 1 month, how many times did you have anal sex with male partner abroad? (Write '00' if there is no anal sex with male partner in last 30 days) | Number of time..... <input type="text"/> Don't know..... 98 | |
| 539 | Did you use condom in your last anal sex with male partners when you were abroad? | Yes.....1 No.....2 | → 541 |
| 540 | Who suggested condom use that time? | Myself.....1 My Partner.....2 Don't know..... 98 | } 542 |
| 541 | Why didn't you use condom that time? | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary 5 Didn't think of it.....6 Others (Specify) _____ 96 Don't know..... 98 | |

| | | | |
|-----|--|---|------|
| 542 | Over the last 1 year, how often did you use Condom with male partner/s abroad? | All of the time.....1 Most of the time.....2 Some of the time3 Rarely.....4 Never.....5 | →544 |
|-----|--|---|------|

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|---|---|---------|
| 543 | Why you did not use condom always? (Multiple answers. Do not read the possible answers) | Not available.....1 Too expensive.....2 Partner objected3 I didn't like to use it.....4 Didn't think it was necessary..5 Didn't think of it.....6 Others _____96 (Specify) Don't know..... 98 | |
| 544 | With whom did you have the last sexual intercourse? | FSW.....1 Wife.....2 Other female friend.....3 Lover/female friend.....4 Male friend.....5 No sexual intercourse in last 12 months.....6 Never had sexual intercourse..7 | 547 |
| 545 | Did you use condom at that time? (Check with Qno.503, 505,509,513,515,519,523,527, 531) | Yes.....1 No.....2 | |
| 546 | Where did you have the last sexual intercourse? | Nepal.....1 Abroad.....2 | |

Condom Accessibility

| | | | |
|-----|--|-----------------------|--|
| 547 | Do you usually carry condoms with you? | Yes.....1 No.....2 | |
|-----|--|-----------------------|--|

| | | | |
|-----|---|---|-----|
| 548 | <p>Which places or persons do you know where You can obtain condoms?</p> <p>(Multiple answers. Do not read the possible answers)</p> | <p>Health Post/Health Center....1 Pharmacy.....2 General retail store <i>(Kirana Pasal)</i>.....3 Private Clinic.....4 Paan shop.....5 Hospital.....6 FPAN Clinic.....7 Peer/Friends.....8 Health Workers/Volunteers....9 Hotel/Lodge..... 10 Brothel..... 11 NGO..... 12 FCHVs.....13 Others ((Specify) _____ _____ 96 Don't know 98</p> | 550 |
|-----|---|---|-----|

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|--|--|--------------------|
| 549 | <p>How long does it take for you to get condom From your work place or home?</p> | <p>Minute.....</p> | |
| 550 | <p>Do you usually obtain condoms free of cost or Pay for it or obtain both ways?</p> | <p>I get it free of cost1 I buy.....2 Both3 Never used condom4</p> | <p>553 601</p> |
| 551 | <p>From where do you of ten obtain free condoms?</p> <p>(Multiple answers. Do not read the possible answers)</p> | <p>Health Post/Health Center....1 Hospital 2 FPAN Clinic3 Peer/Friends.....4 During Community Program...5 Health Workers/Volunteers....6 NGO.....7 FCHVs.....8 Others _____96 (Specify)</p> | |
| 552 | <p>Which would be the most convenient place/s for you to obtain free condoms?</p> <p>(Multiple answers. Do not read the possible answers)</p> | <p>Health Post/Health Center. 1 Hospital.....2 FP Clinic.....3 Peer/Friends.....4 During Community Programme.....5 Health Workers/Volunteers..6 NGO.....7 FCHVs.....8 Others _____96 (Specify)</p> | |

| | | | |
|-----|---|---|--|
| 553 | From where do you often buy condoms? (Multiple answers. Do not read the possible answers) | Pharmacy.....1 General retail store (Kirana Pasal).....2 Private clinic.....3 Paan Shop.....4 → Others.....96 → (Specify) → | |
| 554 | Which would be the most convenient places for you to buy condom? (Multiple answers. Do not read the possible answers) | Pharmacy.....1 General retail store _____ (Kirana Pasal).....2 Private clinic.....3 Paan Shop.....4 Others.....96 (Specify) | |

6.0 AWARENESS OF HIV and AIDS

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|---|--|---------|
| 601 | Have you ever heard of an illness called HIV and AIDS? | Yes.....1 No.....2 | 701 |
| 602 | Where have you seen or heard messages Regarding HIV and AIDS? Name district and/or city and country any others? | <u>Country</u> <u>City/village</u> <u>District/State</u> In Nepal _____ Abroad _____ _____ | |
| 603 | What messages have you heard? (Probe this about any others) | List Messages 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ | |
| 604 | What are the sources of these information on HIV and AIDS? | List sources of information 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ | |
| 605 | Has any person tried to educate you about HIV Or STDs in the past year? | Yes1 No.....2 Don't know..... 98 | 607 |

| | | | |
|-----|---|--|--|
| 606 | In which district or city did those people educate you? | Country _____ City/village _____ District/State _____ In Nepal _____ _____ Abroad _____ _____ | |
|-----|---|--|--|

Knowledge, Perception and Attitudes on HIV and AIDS

| | | | |
|-------------|---|---|----------------|
| 607 | Do you know anyone who is infected with HIV Or who died of AIDS? | Yes.....1 No.....2 | → 609 |
| 608 | Do you have a close relative or close friend Who is infected with HIV or has died of AIDS? | Yes ,a close relative1 Yes ,a close friend.....2 No.....3 | |
| 609 | Can people protect themselves from HIV by Having one uninfected faithful sex partner? | Yes.....1 No.....2 Don't know..... 98 | |
| 610 | Can people protect themselves from HIV virus Causing AIDS by using condom correctly in each sexual contact? | Yes.....1 No.....2 Don't know..... 98 | |
| 611 | Do you think a healthy-looking person can be infected with HIV? | Yes.....1 No.....2 Don't know..... 98 | |
| Q.N. | Questions and Filters | Coding Categories | Skip to |
| 612 | Can a person get the HIV virus from mosquito bite? | Yes.....1 No.....2 Don't know..... 98 | |
| 613 | Can a person get HIV by sharing a meal with the HIV infected person? | Yes.....1 No.....2 Don't know..... 98 | |
| 614 | Can a pregnant woman infected with HIV and AIDS transmit the virus to her unborn child? | Yes.....1 No.....2 Don't know..... 98 | 616 |
| 615 | What can a pregnant woman do to reduce the Risk of transmission of HIV to her unborn child? | Take Medication.....1 Others.....96 (Specify) Don't know..... 98 | |
| 616 | Can a woman with HIV and AIDS transmit the Virus to her newborn child through breastfeeding? | Yes.....1 No.....2 Don't know..... 98 | |
| 617 | Can people protect themselves from HIV virus By abstaining from sexual intercourse? | Yes.....1 No.....2 Don't know..... 98 | |
| 618 | Can a person get HIV by holding on with HIV Infected person's hand? | Yes.....1 No.....2 Don't know..... 98 | |
| 619 | Can a person get HIV by using previously used Needle/syringe? | Yes.....1 No.....2 Don't know..... 98 | |

| | | | |
|-------|---|---|-------|
| 620 | Can blood transfusion from HIV infected Person transmits HIV to others? | Yes.....1 No.....2 Don't know..... 98 | |
| 621 | I sit possible in your community for someone To have a confidential HIV test? | Yes.....1 No.....2 Don't know..... 98 | |
| 621.1 | If you have to go for HIV testing, do you know Where can you go for it? | Yes.....1 No.....2 | |
| 622 | I don't want to know the result , but have you Ever had an HIV testing? | Yes.....1 No.....2 | 701 |
| 623 | Did you voluntarily undergo the HIV test or was it required? | Voluntarily.....1 Required.....2 No Response.....99 | |
| 624 | Please do not tell me the result , but did you Find out the result of your test? | Yes.....1 No.....2 | 625.1 |
| 625 | Why did you not receive the test result? | Sure of not being infected ..1 Afraid of result.....2 Felt unnecessary3 Forgot it.....4 Others _____96 (Specify) | |
| 625.1 | In the past one year did you go for HIV testing? | Yes.....1 No.....2 | 626 |
| 625.2 | I don't want to know the result , but did you Receive the test result? | Yes.....1 No.....2 | |
| 626 | When did you have your most recent HIV test? | Within last 12 months.....1 Between 1-2 years.....2 Between 2-4 years.....3 More than 4 years ago.....4 | } 701 |
| 626.1 | How many times have you undergone for HIV test within the last 12 months? | times | |

7.0 STI (SEXUALLY TRANSMITTED INFECTION)

| | | | |
|-----|--|---|-----------|
| 701 | Which diseases do you understand by STI? (Multiple answers. Do not read the possible answers) | White Discharge/Discharge Pus/ <i>Dhatu</i> flow.....1 Pain during urination.....2 Burning Sensation while Urinating.....3 Ulcerorsorearoundgenitalarea.4 Syphilis (<i>Bhiringi</i>).....5 HIV/AIDS.....6 Others _____96 (Specify) Don't know..... 98 | |
| 702 | Do you currently have any of the following symptoms? | | |
| | Symptoms | Yes | No |

| | | | | |
|--|--|---|---|-----|
| | 1. White Discharge/Discharge of pus | 1 | 2 | |
| | 2. Pain during urination | 1 | 2 | |
| | 3. Burning sensation while urinating | 1 | 2 | |
| | 4. Ulcer or sore around genital area | 1 | 2 | |
| | 96.Others(Specify)_____ | 1 | 2 | |
| (If answer is 'No' to all in the Q.No.702 Goto Q.710) | | | | |
| 703 | Have you gone through medical treatment for Any of these symptoms? | Yes.....1 No.....2 | | 710 |
| 703.1 | If yes, for how long did you wait to go for treatment? (Write '00' if less than a week) | Week | | |
| 704 | Where did you go for the treatment? (Multiple answers. Do not read the possible answers) | Private Clinic1 NGO Clinic.....2 Health Post/Health Center...3 Hospital.....4 Pharmacy.....5 Self Treatment(Specify)_____6 Others_____96 (Specify) | | |
| 705 | For which symptoms did you get treatment? Specify the treatment. | | | |
| | Symptoms | Treatment | | |
| | 1.WhiteDischarge/Discharge of Pus | | | |
| | 2. Pain during urination | | | |
| | 3.BurningSensationwhileUrinating | | | |
| | 4.Ulcerorsorearoundgenitalarea | | | |
| | 96.Others(Specify)_____ | | | |

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|-------|--|---|------------|
| 706 | Did you receive a prescription for medicine? | Yes1 No.....2 Home treatment.....3 | 709 709 |
| 707 | Did you obtain all the medicine prescribed? | Yes I obtained all of it.....1 I obtained some but not all....2 I did not obtain the medicine 3 | 709 |
| 708 | Did you take all of the medicine prescribed? | Yes1 No.....2 | 709 |
| 708.1 | If not, why did you not take all of the medicine prescribed? | Forgot to take1 Felt cured.....2 Medicine did no help3 Others (Specify)_____96 | |
| 709 | How much did you pay for medicine you took? (Note : If not paid mention the reasons) | Rs. _____ Reason | |
| 710 | Did you have any of the following symptoms during the past year? | | |
| | Symptoms | Yes | No |
| | 1. White Discharge/Discharge of pus | 1 | 2 |
| | 2. Pain during urination | 1 | 2 |

| | | | | |
|-----|--|--|----|-----|
| | 3. Burning sensation while urinating | 1 | 2 | |
| | 4. Ulcer or sore around genital area | 1 | 2 | |
| | 96. Others(Specify)_____ | 1 | 2 | |
| | (If answer is 'No 'to all in Q.No.710, Go to Q. 801) | | | |
| 711 | Did you get treatment for the symptoms cite in the past year? | | | |
| | Symptoms | Yes | No | |
| | 1. White Discharge/Discharge of pus | 1 | 2 | |
| | 2. Pain during urination | 1 | 2 | |
| | 3. Burning sensation while urinating | 1 | 2 | |
| | 4. Ulcer or sore around genital area | 1 | 2 | |
| | 96. Others(Specify)_____ | 1 | 2 | |
| | (If answer is 'No' to all in Q.No.711 Goto Q.801) | | | |
| 712 | Where did you go for the treatment? (Multiple answers. Do not read the possible answers) | Private Clinic1 NGO Clinic.....2 Health Post/Health Center...3 Hospital.....4 Pharmacy.....5 Self Treatment(Specify)_____6 Others_____ (Specify)... 96 | | 801 |
| 713 | Did anyone from the place you visit for treatment counsel you about how to avoid the problem? | Yes.....1 No.....2 | | 801 |
| 714 | What did she/he tell you? | Told me to use condom1 Told me to reduce number of sexual partners2 Others(Specify)_96 | | |

8.0 USE OF DRUGS AND INJECTION

| | | | | |
|-----|---|---|--|---------|
| 801 | During the last 1 month, how often did you Have drinks containing alcohol? | Everyday1 2-3 times a week2 At least once a week3 Less than once a week.....4 Never.....5 Don't know..... 98 | | |
| 802 | Some people take different types of drugs. Have you also tried any of those drugs in the past 30 days? | Yes1 No.....2 Don't know..... 98 | | |
| 803 | Some people inject drugs using a syringe. Have You ever injected drugs? (Do not count drugs injected for medical purpose or treatment of any illness) | Yes1 No.....2 Don't know..... 98 | | 901 |
| 804 | Have you injected drugs in last 12 months? (Do not count drugs injected for medical purpose or treatment of any illness) | Yes1 No.....2 Don't know..... 98 | | 90 1 |



| | | | |
|-----|---|---|-----|
| 805 | Are you currently injecting drugs? | Yes1 No.....2 | 901 |
| 806 | Think about the last time you injected drugs. Did you use a needle or syringe that had previously been used by someone else? | Yes1 No.....2 Don't know..... 98 | |
| 807 | Think about the time you injected drugs during the past one month. How often was it with a needle or syringe that had previously been used by someone else? | Every Time.....1 Almost Every Time.....2 Sometimes.....3 Never.....4 Don't Know.....98 | |
| 808 | Usually how do you get/did you get syringe/needle? | My friend/relative gave it to me after his use.....1 Unknown person gave it to me2 I picked it up from a public place which was left there by others.....3 I picked it up from a public place which was left there by myself.....4 I used a new needle/syringe given by NGO volunteer....5 I used a needle/syringe which I purchased.....6 Others(Specify)_____96 | |

9.0 STIGMA AND DISCRIMINATION

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|---|--|---------|
| 901 | If a male relative of yours become ill with HIV, would you be willing to care for him in your household? | Yes1 No.....2 Don't know..... 98 | |
| 902 | If a female relative of yours become ill with HIV, would you be willing to care for him in your household? | Yes1 No.....2 Don't know..... 98 | |
| 903 | If a member of your family become ill with HIV, would you want it to remain secret? | Yes1 No.....2 Don't know..... 98 | |
| 904 | If you knew a shop keeper or food seller had HIV, would you buy food from him/her? | Yes.....1 No.....2 Don't know.....98 No response.....99 | |
| 905 | Do you think a person with HIV should get the Same, more or less healthcare than someone with any other chronic disease? | Same.....1 More.....2 Less.....3 Don't know.....98 | |
| 906 | If one of your colleagues has HIV but he/she is Not very sick, Do you think he/she should be allowed to continue working? | Yes.....1 No.....2 Don't know.....98 No response.....99 | |

| | | | |
|------|--|--|--|
| 906a | Do you think children living with HIV should be able to attend school with children who are HIV negative?" | Yes.....1 No.....2 Don't know.....98 No response.....99 | |
|------|--|--|--|

10.0 KNOWLEDGE AND PARTICIPATION IN STI, HIV AND AIDS PROGRAMS

| | | | |
|------|---|---|-------|
| 1001 | Have you met, discussed, or interacted with peer educators(PE) or community mobilizer (CM) in the last12 months? | Yes.....1 No.....2 No response.....99 | }1003 |
| 1002 | Do you know from which organization were they? (Multiple answers: DO NOT READ the possible answers given below) | NGOs (Specify)..... Other (specify)..... | |
| 1003 | Have you visited or been to any drop in Center (DIC) in the last 1 year? | Yes.....1 No.....2 | 1005 |
| 1004 | Do you know which organizations were Running those DICs? (Multiple answers: DO NOT READ the possible answers given below) | NGOs (Specify)..... Other (specify)..... | → |
| 1005 | Have you visited any STI clinic in the last 1year? | Yes.....1 No.....2 | 1007 |
| 1006 | Do you know which organizations run Those STI clinics? (Multiple answers: DO NOT READ the possible answers given below) | Government sector (specify)..... Private sector (specify)..... NGOs (Specify)..... Others (specify)..... | |
| 1007 | Have you visited any voluntary counseling And testing (VCT) centers in the last 12 months? | Yes.....1 No.....2 | 1009 |
| 1008 | Do you know which organizations run Those HTC centers? (Multiple answers: DO NOT READ the possible answers given below) | Government sector (specify)..... Private sector (specify)..... NGOs (Specify)..... Others (specify)..... Don't know..... 98 | |

| Q.N. | Questions and Filters | Coding Categories | Skip to |
|------|--|---|---------|
| 1009 | In the last 1 year have any CHBC health Workers visited your house? | Yes.....1 No.....2 | →1100 |
| 1010 | Do you know which organizations were They from? (Multiple answers: DO NOT READ the possible answers given below) | Government sector (specify)..... NGOs (Specify)..... Others(Specify).....96 Don't know..... 98 | → |

| | | | |
|--------|---|--|--|
| 1011 | Have you ever heard about prevention of mother to child transmission services (PMTCT) for pregnant women? | Yes.....1 No.....2 No response99 } | |
| 1011.1 | Do you know from where pregnant women can get PMTCT services? | Yes.....1 No.....2 No response99 } | |
| 1011.2 | If Yes, please specify | | |
| 1012 | Have you ever heard about anti-retroviral therapy (ART) services for HIV positive individuals? | Yes.....1 No.....2 No response99 } | |
| 1012.1 | Do you know from where HIV positive individuals can get ART services? | Yes.....1 No.....2 No response99 } | |
| 1012.2 | If Yes, please specify | | |
| 1013 | Have you heard of viral load testing services for HIV positive individuals? | Yes.....1 No.....2 No response99 } | |
| 1013.1 | Do you know from where HIV positive individuals can get viral load testing services? | | |
| 1013.2 | If Yes, please specify | | |

Thank the respondent and send to clinicians

Annex-3: Map showing Study Districts

