Integrated Biological and Behavioral Surveillance Survey (IBBS) among Male Injecting Drug Users (IDUs) in the Eastern Terai of Nepal Round IV – 2009

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~ Study Team New ERA ~

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ABBREVIATIONS

AMDA - Association of Medical Doctors of Asia

ARC - Addiction Recovering Center

AIDS - Acquired Immuno-Deficiency Syndrome

ASHA - Advancing Surveillance, Policies, Prevention, Care & Support to

BDS - Blue Diamond Society

BPKIHS - B.P. Koirala Institute of Health Science

CMs - Community Mobilizers

DIC - Drop-in-Centre
DYC - Dharan Youth Center
FHI - Family Health International

FPAN - Family Planning Association of Nepal

FSW - Female Sex Worker

GOs - Governmental Organizations HIV - Human Immuno-Deficiency Virus

IBBS - Integrated Biological and Behavioral Surveillance Survey

ID - Identification NumberIDU - Injecting Drug User

IEC - Information, Education and Communication

KCC - Knight Chess Club

KYC - Kirat Yakthum Chumlung

LALS - Life giving and Life saving Society

MARPs - Most at Risk Populations

MRGM - Mountain Hill Resource Management Group

MSM - Men who have Sex with Men

NCASC - The National Center for AIDS and STD Control

NGO - Non-Governmental Organization NHRC - Nepal Health Research Council

NIDS - Naxalbari Integrated Development Society

NPHL - National Public Health Laboratory

OE - Outreach Educator PE - Peer Educator

PHSC - Protection of Human Subjects Committee

PPS - Probability Proportional to Size

RPR - Rapid Plasma Regain

SACTS - STD/AIDS Counseling and Training Services

SIDC - Social Integrated Development Center

SLC - School Leaving Certificate

SPSS - Statistical Package for the Social Sciences

STI - Sexually Transmitted Infection

TPHA - Treponema Pallidum Hemagglutination AssayUSAID - United States Agency for International Development

VCT - Voluntary Counseling and Testing

WHO - World Health OrganizationYMS - Youth Mobilization Center

EXECUTIVE SUMMARY

This study presents the findings of the fourth round of the IBBS conducted among IDUs of the Eastern Terai region of Nepal. The study is based on a survey of 345 males aged 16 years and above who have been injecting illicit drugs for at least three months prior to the date of the survey. The IDUs were recruited from different areas of the Jhapa, Sunsari and Morang districts of the Eastern Terai. The objective of the study was to determine the prevalence of HIV/STIs and to assess HIV/STI-related risk behavior among the IDUs in the study areas. The study also collected information on IDUs' socio-demographic characteristics, awareness of HIV/STIs, sexual behavior, condom use and exposure to intervention programs in the study areas. The fieldwork started on 19 January and was completed on 23 February 2009.

Study Methodology

The sample size was determined by using a basic statistical formula which estimated a size of 345 samples. Two-stage cluster sampling was used to draw the sample. In the first stage, 30 clusters were selected using the probability proportional to the size (PPS) method and in the second stage 15 respondents were selected randomly from each selected clusters.

A quantitative research approach was adopted in the study. Structured questionnaires were used to collect behavioral data among the IDUs. In order to draw up a comparative analysis of the behavioral trends over the years, questions asked during the previous rounds were repeated. Strict confidentiality was maintained throughout the study process. The respondents were provided a unique ID number. The same ID number was used on the questionnaire, medical records, and blood specimens of the particular respondents.

All respondents participated voluntarily in the study. Those who did not meet the study criteria and those who were not willing to participate were not involved in the study. The study was conducted in compliance with both ethical and human rights standards. These standards included participants' anonymity as well as pre- and post-test counseling. 'Ethical' as well as 'technical' approval was obtained from Family Health International's ethical review body, the Protection of Human Subject Committee (PHSC), and the Nepal Health Research Council (NHRC) prior to the commencement of the fieldwork. Informed consent was obtained in the presence of a witness from all the participants prior to the interview and the collection of blood samples.

Laboratory Methods

Syphilis was tested for using the Rapid Plasma Regain (RPR) test card and confirmed by means of the Serodia Treponema Pallidium Particle Agglutination (TPPA) test. Treponema Pallidum Particle Agglutination (TPPA)-positive and all samples with positive RPR were further tested for the titre of up to 64 times dilution. HIV was detected by using Determine HIV 1/2 (Abbott Japan Co. Ltd.) as a first test to detect antibodies against HIV. If the first test showed a negative result then no

further test was conducted but if the first test was positive, the second test was performed using Uni-Gold (Trinity Biotech, Dublin, Ireland). In case of a tie between the first two tests, a third test was performed using SD Bioline HIV 1/2 (Standard Diagnostics, Inc., Kyonggi-do, South Korea) as a tie-breaker test.

Key Findings

Overall, 8.1 percent of IDUs tested HIV-positive. A history of syphilis was found among 1.7 percent of the IDUs, while 1.7 percent of the study participants currently had high-titre syphilis. The prevalence of HIV was significantly high (p<0.05) among IDUs aged 20 years and above, who were ever married, and who had been injecting drugs for more than five years.

One-third of IDUs had been injecting drugs for more than five years. The past week's injecting practice indicated that 17 percent had shared their needles/syringes with others at least once, 14.5 percent had injected with other's used needles/syringes, and 10.7 percent of respondents had used a needle/syringe kept in a public place.

About 92 percent of IDUs had had sexual contact before. Of these, 71.5 percent had been sexually active in the past year. Nearly 45 percent of respondents used condoms consistently with sex workers, 23.7 percent with non-regular partners, and 5.6 percent with regular sex partners. Consistent condom use with all sex partners had decreased compared to 2007.

Overall, 95.4 percent of IDUs were aware of all three main prevention measures namely, (A) abstinence from sex, (B) being faithful to one sex partner, and (C) regular condom use. Around 96 percent of IDUs knew that a confidential HIV testing facility was available in their communities. However, 38 percent of them had never taken up HIV testing before. Nearly 91 percent of IDUs had met PEs/OEs, 87.5 percent had visited a DIC and 33.6 percent had visited a VCT center at least once in the past year. However, very few (6.1%) had visited an STI clinic. About 86 percent of respondents had participated in HIV/AIDS awareness programs or similar community events before the survey.

CHAPTER - 1.0: INTRODUCTION

1.1 Background

The National Center for AIDS and STD Control (NCASC) has been compiling and publishing data on reported HIV cases in different population sub-groups since 1991. As of May 2009, a cumulative total of 13,885 HIV infections, including 2,384 cases of AIDS, have been reported in Nepal (NCASC, May 14, 2009). In 2007, NCASC estimated that about 70,000 people were infected by HIV in Nepal. There is a large gap between the estimated number of HIV infections and the number of people who have been tested and know their status.

The IBBS is conducted at regular intervals in Nepal. This is the fourth round of the study conducted among IDUs in the Eastern Terai. IDUs function as a core HIV risk group because of their high risk behavior of sharing needles/syringes between different injecting partners and also re-using needles kept in public places. Moreover, high-risk sexual behavior associated with drug use has also been found to be a major contributing factor to the spread of HIV among the non-injecting population (AIDS in Asia, MAP Report, 2004).

HIV prevalence among IDUs varies by location in Nepal. The first round of the IBBS conducted in 2002 indicated quite a high prevalence of HIV (68%) among IDUs in the Kathmandu Valley (New ERA/SACTS/FHI 2007). The third round of the IBBS conducted in 2007 indicated a 35 percent HIV prevalence rate among IDUs in Kathmandu. IDUs who lived in the Kathmandu Valley had a higher HIV prevalence compared to IDUs from other places. In Pokhara, 22 percent of IDUs were found to be HIV positive in 2003, while the figure was about 7 percent in the 2007 rounds of the IBBS (IBBS, New ERA/SACTS/FHI 2007). Similarly, in three districts (Morang, Sunsari, and Jhapa) of the Eastern Terai, HIV among IDUs was 35 percent in 2003 and 17 percent in the 2007 rounds of IBBS (IBBS, New ERA/SACTS/FHI 2007). Although significantly lower than the 2003 and 2005 IBBS result, the findings of the third round of study in the Eastern Terai was still rather alarming.

This report focuses on the findings of the fourth round of study in the Eastern Terai and compares the results from all four surveys where possible.

CHAPTER – 2.0: DESIGN AND METHODOLOGY

2.1 Objectives of the Study

In line with the objectives of the previous rounds of the IBBS, the fourth round of the study was also undertaken primarily to determine the prevalence of HIV/STIs and to assess HIV/STI-related risk behavior among IDUs in the Eastern Terai.

In addition, this study collected specific information on IDUs; their socio-demographic characteristics, the level of awareness about HIV/STIs, as well as their exposure to intervention programs in the Eastern Terai.

2.2 Study Population

The cross-sectional study was conducted among IDUs who are considered to be one of the 'core groups' for transmission of HIV/STI infection. Current IDUs from the three districts of Jhapa, Morang and Sunsari were included in the study. All participants were screened for eligibility criteria. For the purpose of this study the inclusion definition for IDUs was 'those current injectors aged 16 years and above who have been injecting illicit drugs for at least three months prior to the date of the survey'.

2.3 Sample Size and Sampling Design

The sample size used in the previous rounds of IBBS in this site was used in this round also. Initially the sample size was determined by using a basic statistical formula which estimated a sample size of 345 IDUs (Annex 2).

This is the fourth round of the IBBS being conducted among IDUs of the Eastern Terai region of Nepal. Before the start of the study, a preliminary field survey was conducted to understand the actual field situation and to map out the IDUs' concentration sites in the study districts.

Before starting the actual fieldwork, concerned stakeholders at the district level, as well as local governmental organizations' (GOs) and non-governmental organizations' (NGOs) representatives were consulted to collect information on IDUs and their injecting practices. A rapid listing of the IDUs and their gathering/injecting locations was made. In addition to this, both maximum and minimum numbers of IDUs were listed in all the identified locations.

Based on the preliminary information collected during the mapping exercise, a list of locations and an estimated number of IDUs in each location was prepared.

Two-stage cluster sampling was used to draw the sample. A location with at least 30 IDUs was defined as a cluster in the first stage. Those sites with less than 30 estimated IDUs were combined with the neighboring site to make a cluster with a minimum size of 30 IDUs. In the first stage, 30 clusters were selected using the

probability proportional to size (pps) method and in the second stage 11-12 respondents were chosen randomly from each of the selected clusters.

The fieldwork started on 19 January and was completed on 23 February 2009.

2.4 Study Process

A quantitative research approach was adopted by the study. Structured questionnaires were used to collect behavioral data relating to drug injecting, syringe/needle sharing and sexual behavior among the IDUs. Additionally, some demographic and social characteristics were collected. In order to draw up a comparative analysis of the behavioral trends over the years, questions asked during the first three rounds were repeated. The questionnaires (Annex 3) were developed based on the "Guidelines for Repeated Behavioral Surveys in Populations at Risk of HIV" (FHI, 2000).

Before initiating the actual interview, all those willing to participate were informally asked certain questions in order to ensure that they met the inclusive criteria set for the study. Injecting marks were also observed in order to confirm their injecting behavior.

Strict confidentiality was maintained throughout the study process. The names of the study participants or their full addresses were not recorded anywhere. Instead, they were provided a unique ID number written on a plastic-coated card. The same number was marked on the questionnaire, on the medical records, and on the blood specimen of each respondent. This card was also used for the distribution of the test results. Only those participants who produced the card were provided the HIV and syphilis test results verbally with pre- and post-test counseling.

2.4.1 Recruitment of Respondents in the Sample

Using the information on locations and the estimated number of IDUs in those locations, first-stage clusters were defined and 30 such clusters were elected using pps method. Then from each of the first-stage clusters selected, 11-12 IDUs were randomly selected in the sample. After careful observation of different sites within the clusters, selected IDUs were approached and informed about the study. In this process if some of the selected IDUs were not easily identified, key people were used for the identification of the selected IDUs in those localities.

Because of the social stigma and discrimination associated with intravenous drug behavior, some of the randomly-selected IDUs were not easily accessible as they did not want to disclose their status. In such situations, community mobilizers and peer educators of on-going HIV/AIDS programs, ex-IDUs, social workers, IDUs who successfully participated in the study, or any other key people who could identify and approach the selected IDUs were mobilized. At least three attempts were made to contact and include the person randomly selected. If this was not successful after three attempts, that person was replaced by the next randomly selected IDU in the cluster.

2.4.2 Refusal

All respondents participated voluntarily in the study. Those who did not meet the study criteria and those who were not willing to participate were not involved in the study.

There were 53 such refusal cases at the study sites. Among them, 18 IDUs said they would have to wait a long time to get the test result, 17 said they were not interested, 11 had no time to take part in the study, three each said that they were afraid to give blood and had already tested for HIV, while one was not interested in having an HIV test.

All those who decided to quit the study because of unavailability of time were offered a second visit at a more suitable time. Those who did not take part in the study were provided with a health check-up at the study clinic.

2.4.3 Ethical Review

The research was conducted in compliance with both ethical and human rights standards. These standards included participants' anonymity as well as pre- and post-test counseling. As this study focused on individuals who are highly stigmatized and as injecting drugs is illegal in Nepal, 'ethical' as well as 'technical' approval was obtained from Family Health International's ethical review body, the Protection of Human Subjects Committee (PHSC), and the Nepal Health Research Council (NHRC) prior to the start of the fieldwork. The study protocols were carefully reviewed and approved by these organizations. Moreover, verbal informed consent was obtained from all the participants prior to the interview and collection of blood samples in the presence of a witness. The consent form was administered in a private setting. The verbal consent form used in the study is included in Annex 4. No personal identifiers were collected and the samples were labeled only with the ID number provided to the study participant.

2.4.4 Clinical and Laboratory Procedures

The study participants were clinically checked for any STI symptoms by the health assistant, who also filled in a checklist with the information provided by the respondents (Annex 5). They provided syndromic treatment to respondents having STI symptoms in accordance with the 'National STI Case Management Guidelines'. Other over-the-counter medicines such as paracetamol, alkalysing agents and vitamins were given as necessary.

A blood sample of approximately 5 ml was collected from each study participant using a disposable syringe. The blood sample was placed in a centrifuge to separate the blood cells from the serum. Serum samples were stored in the refrigerator at the study site. Each sample was labeled with the ID number of the study participant. The specimens were transported by SACTS in Kathmandu in a cold box once every 10 days. The serum samples were stored at a temperature of minus 12°C to minus 20°C at the SACTS laboratory.

Laboratory Methods

Syphilis was tested using BD. Micro-Vue Rapid Plasma Regain (RPR) card test. All the samples negative for RPR were recorded as negative. All positive samples for RPR were further tested with serial serum dilution up to 64 times and the test record was recorded with dilution factor. All the RPR positive serums were also tested by Treponema Pallidum Particle Agglutination (TPPA) test using Serodia TPPA as a confirmatory test.

On the basis of titre of RPR, all the specimens with RPR/TPPA-positive results were divided into two categories.

- TPPA-positive with RPR-ve or RPR +ve with Titre < 1:8 History of syphilis
- TPPA-positive with RPR titre 1:8 or greater Current syphilis requiring immediate treatment

Altogether, 61 IDUs were provided syndromic treatment for STIs as they went through the clinical procedure in the course of the study.

HIV was detected using Determine HIV 1/2 (Abbott Japan Co. Ltd.) as first test to detect antibodies against HIV. If the first test showed a negative result, then no further test was conducted, but if the first test was positive, a second test was performed using Uni-Gold (Trinity Biotech, Dublin, Ireland). In case of a tie between the first two tests, a third test was performed using SD Bioline HIV 1/2 (Standard Diagnostics, Inc., Kyonggi-do, South Korea) as a tie breaker test. The interpretation of the test results was done as follows:

- First test negative = negative
- First + second test positive = positive
- First test positive + second test negative + third test positive = positive
- First test positive + second test negative + third test negative = negative

Quality Control of Laboratory Tests

Quality control was strictly maintained throughout the process of the collection of the specimen, as well as in the handling and testing stages. All the tests were performed using internal controls. These controls were recorded with all the laboratory data. For external quality assessment, a 10 percent sample of the total serum collected was submitted to National Public Health Laboratory (NPHL) to test HIV and syphilis. In case the prevalence of HIV or syphilis is less than 5 percent, the total 10 percent sample sent to NPHL was selected as follows: (a) all positive samples and (b) remaining number of samples to reach 10 percent in total selecting randomly from the negative samples. In case the prevalence is more than 10 percent, the sample sent to quality assurance was selected as follows: (a) Ten percent of all positive samples selecting randomly and (b) Ten percent of all negative samples selecting randomly.

The proposed testing protocol is based on the World Health Organization (WHO) guidelines (Strategy 3) and the National VCT Guidelines of Nepal developed by the NCASC, 2007

2.5 Study Management

The study was conducted under the leadership of NCASC, Ministry of Health and Population, Government of Nepal. The NHRC reviewed the study protocols and the study instruments and provided its approval to the study. The overall management of the study was carried out by New ERA in collaboration with STD/AIDS Counseling and Training Services (SACTS) while FHI/USAID Nepal provided technical support. SACTS was responsible for setting up the laboratory in the field site, providing training to the lab technician, supervising and collecting specimen samples, maintaining cold chain, conducting HIV and syphilis testing at their laboratory and also ensuring that EQA (External Quality Assessment) tests were performed using prescribed test kits and testing approach at National Public Health Laboratory (NPHL). New ERA's responsibility was to design the research methodology (including the sampling method), prepare the questionnaire, recruit and train survey team, collect data, transport the samples to the laboratories maintaining a proper temperature, analyze the collected information and coordinate and monitor the distribution the test results to the study participants with post-test counseling. NPHL performed EOA test on 10 percent sample of the total serum collected for HIV and Syphilis.

The study was conducted by a team made up of a study director, a research coordinator, two research officer, two research assistants and field teams. The field teams formed for the survey included a research assistant, five supervisors/interviewers, a health assistant, a lab technician, a runner and a local motivator/s (as per the need).

Before data collection started, a one-week intensive training was organized for the study team. The training session familiarized the team with the study objectives, characteristics of the target groups, rapport-building techniques, the contents of the questionnaire and the study process. The training session also included theory and practical classes on pre-test counseling and questionnaire administration. Experienced doctors from FHI conducted a separate session on STI and HIV/AIDS. A person from Youth Vision, an organization that works with IDUs helped familiarize the study team with general behavior of IDUs and the skills required to deal with them. In addition to these, the training focused on providing a clear concept of informed consent to the research team.

Centrally-located study centers were established at Kakarvitta, Bhadrapur, Birtamod and Damak in Jhapa district. Similarly, in Morang district, study centers were set at Urlabari, Belbari and Biratnagar. In Sunsari district two study centers were set at Dharan and Itahari (Annex 6). Individual interviews, clinical examinations and blood collection were carried out in separate rooms in each of the study centers.

To ensure quality of data, New ERA and FHI officials supervised the fieldwork regularly. Field supervisors reviewed all the completed questionnaires and any inconsistencies in the responses were clarified through discussions with the concerned interviewer later that day. Cross-checking questions were also asked to the study participants to avoid duplication. Such questions included queries relating

to their experience of having undergone any blood test, the part of the body from where the blood was taken, their experience of HIV testing or testing for other diseases, meeting with New ERA staff and peer educators, and possession of an ID card with the study number.

2.6 Constraints in the Field Work

The ongoing political instability in the country created challenges in conducting the field work. Likewise the 16 hours of load shedding in a day created difficulty in separating the serum from the sample in the lab. Besides, the low incentive for the IDUs was another fact for the intricacy for recruiting the sample. To overcome the problem arising from the load shedding, both auto and manual centrifuge machine were provided for the purpose of separating the serum. Likewise, bulks of icepacks were kept in fridge in the field as well as in the SACTS laboratory to store the serum during power cut-off.

2.7 Post-Test Counseling and Test Result Distribution

All the study participants who went to receive their test results with their ID card were provided the HIV and syphilis test results along with post-test counseling by a trained counselor at Kakarvitta, Bhadrapur, Birtamod and Damak VCT centers, which are run by Knight Chess Club (KCC). The Dharan and Itahari VCT centers are run by Punarjiwan Kendra (PJK/KYC); while the Urlabari, Belbari and Biratnagar VCT centers are run by Help Group. The study participants were informed about the location and operating hours of the VCT sites right after the collection of their blood samples for the test.

Post-test counseling and individual report dissemination was completed between 11 February and 8 March 2009 at the VCT centers in the study districts. Out of the 345 IDUs tested for HIV, only 89 (25.8%) turned up for the test results (Annex 7). This low turn-out might be because there was no provision for reimbursement of transportation costs, which would have otherwise prompted the IDUs to visit the VCT center and collect the report. In addition, the time gap between the actual interview and test result dissemination might have also diminished their concern for the test result. Trained counselors gave the test results to the participants in a private setting only after they had produced their ID cards. The counseling session focused on high-risk behavior and other aspects of STIs and HIV. Some participants were also referred to other health facilities for further services.

2.8 Data Management and Analysis

All the questionnaires were collected and transported to the New ERA, Kathmandu office after the fieldwork was completed. The questionnaires were thoroughly checked for any inconsistencies before the data was entered into a computer using FoxPro software. A double-entry approach was used to minimize errors during the data entry. Later, the data file was transferred to SPSS files for further analysis.

Simple statistical tools such as frequency distribution, percentages, range, proportion and mean and median were used to analyze the results of the survey. Chi-square test

values were also calculated to measure the statistical significance of the relationship between cross-tabulated categorical variables. Odd ratios were calculated to measure the relative risk of HIV infection between the categories of the selected explanatory variables. Clinical and behavioral data were merged in order to examine the relationship between the participants' HIV status and background characteristics and injecting and sexual behaviors.

CHAPTER – 3.0: SOCIO-DEMOGRAPHIC CHARACTERISTICS OF IDUs

This chapter discusses the demographic and social characteristics of 345 male IDUs recruited from the different areas of Jhapa, Sunsari and Morang districts of the Eastern Terai for this study.

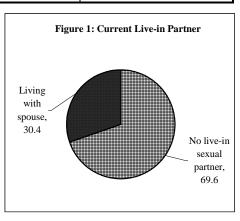
3.1 Demographic Characteristics

The IDUs were mostly young. The majority of respondents (80%) were younger than 30 years. Only a small proportion of respondents (1.7%) were 40 years or older. The median age was 24. Over sixty percent of IDUs (61.7%) were single and 5.8 percent were either divorced/separated from their wives or were widowers; while around 32 percent were married at the time of the survey. The majority of those who had ever been married (84.1%) had been married before they turned 25. The median age at respondents' first marriage was 20.5 years (Table 3.1).

Table 3.1: Demographic Characteristics

| Demographic Characteristics | N | % |
|-----------------------------|------|-------|
| Age | | |
| <= 19 Yrs | 46 | 13.3 |
| 20-24 | 130 | 37.7 |
| 25-29 | 100 | 29.0 |
| 30-34 | 44 | 12.8 |
| 35-39 | 19 | 5.5 |
| 40 + (40 - 48) | 6 | 1.7 |
| Median age | 24.0 | 100.0 |
| Marital status | | |
| Never married | 213 | 61.7 |
| Married | 112 | 32.5 |
| Divorced/Separated/Widower | 20 | 5.8 |
| Total | 345 | 100.0 |
| Age at first marriage | | |
| <=14 years | 2 | 1.5 |
| 15-19 years | 49 | 37.1 |
| 20-24 years | 60 | 45.5 |
| 25-29years | 18 | 13.6 |
| = > 30 years | 3 | 2.3 |
| Median age | 20.5 | - |
| Total | 132 | 100.0 |

Seven in ten IDUs (69.6%) lived alone or without a sexual partner, while a third (30.4%) lived with their spouses (Figure 1).



3.2 Social Characteristics

IDUs in the Eastern Terai were mostly educated, with 75.9 percent of them having secondary or higher education. One in five (16%) had primary education, 5.2 percent were literate but had no formal education, and 2.9 percent of the IDUs were illiterate.

IDUs from various castes/ethnicities were represented in this study. Almost one-third (32.5%) came from the Gurung/Rai/Limbu ethnic community, 16.8 percent were from the Chhetri/Thakuri ethnic group, 11.6 percent were from the Newar ethnic group, while 11 percent were from the Lama/Tamang/Magar/Sherpa group (Table 3.2).

A large majority (82.6%) of the participants had been born and always resided in the districts under study, while the rest had migrated from other districts. Around thirteen percent had been living in the study districts for five years or more, while 4.3 percent had migrated more recently.

Table 3.2: Social Characteristics

| Social Characteristics | N=345 | % |
|--|-------|------|
| Education | | |
| Illiterate | 10 | 2.9 |
| Literate only | 18 | 5.2 |
| Primary | 55 | 16.0 |
| Secondary | 165 | 47.8 |
| SLC & above | 97 | 28.1 |
| Ethnicity | | |
| Gurung/Rai/Limbu | 112 | 32.5 |
| Chhetri/Thakuri | 58 | 16.8 |
| Newar | 40 | 11.6 |
| Tamang/Lama/Magar/Sherpa | 38 | 11.0 |
| Terai caste | 37 | 10.7 |
| Occupational caste | 21 | 6.1 |
| Brahmin | 12 | 3.5 |
| Musalman | 9 | 2.6 |
| Rajbanshi | 6 | 1.7 |
| Majhi/Chepang | 6 | 1.7 |
| Others | 6 | 1.7 |
| Duration of stay in Eastern Region (Jhapa, Morang and Sunsari districts) | | |
| Since birth | 285 | 82.6 |
| Since 5 years | 15 | 4.3 |
| More than 5 years | 45 | 13.1 |

CHAPTER – 4.0: PREVALENCE OF HIV AND STIS

4.1 Prevalence of HIV and STI Infections

In the Eastern Terai, 8.1 percent of the study participants tested HIV-positive. Respondents from Morang district had the highest prevalence rate (12.6%) followed by Jhapa (5.3%) and Sunsari (5.2%) (Annex - 8).

Among the 345 study participants, a history of syphilis was found among ten (2.9%) of the IDUs, while six (1.7%) were currently infected with high-titre syphilis. This indicates that sexually transmitted infection is a relatively a minor problem among IDUs in the Eastern Terai.

Table 4.1: HIV and STI Prevalence

| HIV and STI Prevalence | N=345 | % |
|------------------------|-------|-----|
| HIV | 28 | 8.1 |
| Active Syphilis | 6 | 1.7 |
| Syphilis History | 10 | 2.9 |

4.2 Relationship between Socio-Demographic Characteristics and HIV Infection

As Table 4.2 indicates, HIV prevalence differs significantly with age (p<0.05). IDUs who were 20 years or older (9.4%) were more likely to be HIV-positive than others who were younger than them (0%). Similarly, the prevalence of HIV differed significantly (p<0.01) according to marital status. IDUs who were married/divorced/separated or widowed (13.6%) were nearly three times more likely to carry HIV than those IDUs who were never married (4.7%).

The level of education was another important variable for HIV prevalence. Illiterate IDUs were more likely to be HIV-positive (10%) than those IDUs who could read and write (8.1%). However, the difference is not large enough to be statistically significant (Table 4.2).

Table 4. 2: Relation between Socio-Demographic Characteristics and HIV Infection

| Characteristics | N | HIV+ | % | P Value |
|------------------------|-----------|------|------|---------|
| Age | | | | |
| Below 20 years | 46 | 0 | 0.0 | < 0.05 |
| 20 years and Above | 299 | 28 | 9.4 | < 0.03 |
| Marital status | | | | |
| Ever married | 132 | 18 | 13.6 | < 0.01 |
| Never married | 213 | 10 | 4.7 | < 0.01 |
| Literacy | | | | |
| Illiterate | 10 | 1 | 10.0 | 0.05 |
| Literate/formal school | 335 | 27 | 8.1 | > 0.05 |
| T | Cotal 345 | 28 | 8.1 | |

4.3 Relationship between Drug Injection Behavior and HIV

The relationship between HIV prevalence and drug injection, such as how long respondents had been injecting, frequency of injections during the past week, and the type of syringes used have been reviewed in this section.

By and large, intravenous drug use and certain practices followed by respondents put them at risk of HIV infection. A statistically significant relation was observed (p < 0.01) between duration of injecting drugs and HIV prevalence. In this survey, nearly a third of the participants (19.1%) who had been injecting drugs for five years or more were HIV-positive. Comparatively lower proportions of respondents carried HIV among those who had been injecting for two to five years (2.9%), while the prevalence level was 2.2 percent among those who had been injecting for less than two years (Table 4.3).

Although those IDUs who injected drugs twice a day (or more) in the past week had a higher rate of HIV infection (9.6%) than those who did not inject so frequently, the frequency of injections during the past week did not have a significant association with HIV prevalence (p > 0.05). Similarly, behaviors such as the use of needles/syringes previously used by others and the use of syringes/needles left in public places also did not show a strong association with HIV infection (p > 0.05) (Table 4.3) in the Eastern Terai.

Table 4.3: Relation between Drug Injecting Behavior and HIV Infection

| Drug injecting Behavior | N | HIV+ | % | P value |
|--|-----|------|------|---------|
| Injecting drugs since | | | | |
| Less than 2 years | 92 | 2 | 2.2 | |
| 2-5 Years | 138 | 4 | 2.9 | < 0.01 |
| More than 5 years | 115 | 22 | 19.1 | |
| Frequency of injecting drugs in the past week | | | | |
| Not Injected | 19 | 1 | 5.3 | |
| 1-6 times a week | 84 | 5 | 6.0 | > 0.05 |
| Everyday | 75 | 6 | 8.0 | > 0.03 |
| 2 or more times a day | 167 | 16 | 9.6 | 7 |
| Used another's previously used needle/syringe during the past week | | | | |
| Never/not injected | 295 | 24 | 8.1 | > 0.05 |
| Ever injected | 50 | 4 | 8.0 | > 0.03 |
| Used a needle/syringe kept in public place during the past week | | | | |
| Never /Not injected | 308 | 25 | 8.1 | > 0.05 |
| Ever injected | 37 | 3 | 8.1 | |
| Total | 345 | 28 | 8.1 | |

4.4 Relationship between Sexual Behavior and HIV

This section examines sexual behavior and its relationship to HIV among IDUs in the Eastern Terai. It is important to interpret the findings in this section with caution, as some IDUs may have changed their past sexual behavior since being diagnosed with HIV.

The HIV infection rate is 11.1 percent among those IDUs with a regular female sex partner, 7.1 percent among those who do not have regular partners, and 3.8 percent among those who have never had a sexual partner. This finding itself further underscores the discovery that the current sexual behavior of the IDUs is not necessarily associated with HIV status.

Table 4.4: Relation between Sexual Behavior and HIV

| Sex with Different Partners in the Past 12 Months | N | HIV+ | % | P value |
|--|-----|------|------|---------|
| With regular female sex partner | | | | |
| Yes | 108 | 12 | 11.1 | > 0.05 |
| No | 211 | 15 | 7.1 | > 0.03 |
| Never had sexual experience | 26 | 1 | 3.8 | |
| With Non-regular female sex partners | | | | |
| Yes | 97 | 3 | 3.1 | |
| No | 222 | 24 | 10.8 | > 0.05 |
| Never had sexual experience | 26 | 1 | 3.8 | |
| With female sex worker | | | | |
| Yes | 90 | 6 | 6.7 | > 0.05 |
| No | 229 | 21 | 9.2 | > 0.03 |
| Never had sexual experience | 26 | 1 | 3.8 | |
| Number of female partners in the past 12 months | | | | |
| Number of Regular female sex partner in the past 12 months | | | | |
| 0 Partner | 237 | 16 | 6.8 | > 0.05 |
| 1 partner | 106 | 12 | 11.3 | |
| 2 partners | 2 | 0 | 0.0 | |
| Number of non-regular female sex partner in the past 12 months | | | | |
| 0 Partner | 248 | 25 | 10.1 | > 0.05 |
| 1 partner | 60 | 3 | 5.0 | |
| 2 or more partners | 37 | 0 | 0.0 | |
| Number of female sex workers in the past 12 | | | | |
| months | | | | |
| 0 Partners | 255 | 22 | 8.6 | > 0.05 |
| 1 sex worker | 28 | 0 | 0.0 | |
| 2 or more sex workers | 62 | 6 | 9.7 | |
| Total | 345 | 28 | 8.1 | |

With regard to IDUs' non-regular and commercial sex partners, a higher rate of infection was observed among those who did not have sex with such partners in the past year than among those who did. Likewise, among the IDUs in the Eastern Terai, HIV prevalence was not significantly associated with intercourse with female sex workers in the past year.

Neither was the number of sex partners during the past year related to HIV infection. IDUs with two regular sexual partners had zero HIV prevalence, compared to 11.3 percent among those with one regular partner and 6.8 percent among those who did not have sex with a regular partner in the past year. Likewise, HIV prevalence among IDUs who had not had sex with non-regular sex partners was high (10.1%) compared to others with one or more non-regular sex partner in the past year. Moreover, sexual relations with one or more sex workers in the past year did not show a significant association with HIV infection among IDUs in the Eastern Terai.

To analyze the risk associated with infection, unadjusted odd ratios of HIV risk were calculated for selected characteristics of the IDUs. The odds ratio of HIV infection by marital status shows that IDUs who were, or had been, married were at a greater risk of HIV infection compared to their counterparts who had never been married. For example, the odds ratio is about 3.21 times higher among IDUs who were married or had been in the past, than those who were single, and the association is also statistically significant.

Other selected variables as presented in Table 4.5 did not have a statistically significant association with HIV infection.

Table 4.5: Odds Ratios of HIV Infection by Selected Characteristics of IDUs

| Characteristics | Odd Ratio | HIV + | # cases (n) | 95% Confidence Interval (cornfield) |
|--|-----------|-------|-------------|---|
| Marital Status | | | | |
| Never married | - | 10 | 213 | (1.35, 7.75) |
| Ever married | 3.21 | 18 | 132 | |
| Injected with another's previously used syringe during past week | | | | (0.32, 3.64) |
| Yes | - | 4 | 50 | |
| No | 1.02 | 24 | 295 | |
| Injected with a syringe kept in public place | | | | |
| Yes | 1.00 | 3 | 37 | (0.23, 3.75) |
| No | - | 25 | 308 | |
| Injected with a pre-filled syringe | | | | |
| Yes | 1.24 | 3 | 31 | (0.28, 4.69) |
| No | - | 25 | 314 | |
| Injected in another part of the country or in another country | | | | (0.33, 3.82) |
| Yes | 1.07 | 24 | 293 |] |
| No | - | 4 | 52 | |

CHAPTER – 5.0: DRUG USE, NEEDLE SHARING AND TREATMENT

The needle/syringe- and drug-sharing behavior of IDUs need to be carefully explored to design and implement preventive strategies for the target population. This chapter deals with the drug-using behavior of the IDUs. This chapter relates specifically to the alcohol intake, oral and injecting drug use and needle sharing behavior among IDUs and any kind of treatment sought by the respondents in order to quit drugs.

5.1 Alcohol Consumption and Oral Drug Use among IDUs

Seventy-one percent of respondents had consumed alcohol at least once in the past month. Almost 12 percent had consumed alcohol every day.

About 61 percent of IDUs had been using drugs orally for over five years and 34.8 percent had been doing so for the last 2-5 years (Fig 2). The average duration of oral drug use among the respondents was 7.4 years, while the median duration was 6.3 years.

Table 5.1: Alcohol Intake and Oral Drug Use

| Alcohol and Oral Drug Use | N=345 | % |
|--------------------------------------|-------|------|
| Alcohol Intake during the past month | | |
| Everyday | 41 | 11.9 |
| More than once a week | 78 | 22.6 |
| Less than once a week | 126 | 36.5 |
| Never | 100 | 29.0 |

Among the oral drugs used, marijuana, locally called *ganja* was the most popular, with 71.6 percent reporting to have used it in the previous week, followed by Nitrosun which was used by 44.3 percent of respondents. Other oral drugs used by at least 5 percent IDUs are Phensydel (21.2%), brown sugar (7.0%) and Nitrovate (5.8%) which are listed in Table 5.2.

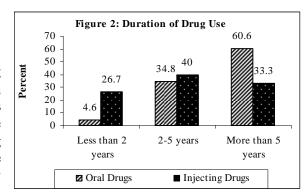
Table 5.2: Types of Drugs Used Orally in Past Week

| Types of Drugs Used Orally | N=345 | % |
|----------------------------|-------|------|
| Ganja | 247 | 71.6 |
| Nitrosun | 153 | 44.3 |
| Phensydyl | 73 | 21.2 |
| Brown Sugar | 24 | 7.0 |
| Nitrovate | 20 | 5.8 |
| Proxygin | 14 | 4.1 |
| Diazepam | 8 | 2.3 |
| Chares | 7 | 2.0 |
| Codeine | 4 | 1.2 |
| Calmpose | 4 | 1.2 |
| Velium 10 | 3 | 0.9 |
| Others | 73 | 21.2 |

Note: Because of multiple answers percentage may add up to more than 100.

5.2 Drug Injecting Practice of IDUs

Most of the respondents had been injecting drugs for a fairly long time, with an average of 4.6 years. One-third of IDUs had been injecting drugs for more than five years, while two- fifths had been injecting for the past two to five years (Fig.2). The median age of the IDUs the first time they used drugs intravenously was 20 years.



About 56 percent of respondents were below 21 when they injected for the first time.

Only a small proportion of respondents (5.5%) had not injected in the week preceding the survey. About a quarter (24.4%) respondents were not injecting daily, while about 70 percent had injected once a day or more. As for the frequency of injections on the last day respondents injected drugs, about a quarter (24.6%) of IDUs had three or more shots, 30.2 percent had injected twice, while 45.2 percent had injected once on the last day. The mean number of times that the IDUs had injected drugs on the last day was two (Table 5.3).

Table 5.3: Drug Injecting Practice

| Drug Injecting Practice | N=345 | % |
|---|-------|------|
| Duration of drug injection | | |
| Less than 2 years | 92 | 26.7 |
| 2-5 years | 138 | 40.0 |
| More than 5 years | 115 | 33.3 |
| Average duration in years | 4.6 | - |
| Age at first drug injection | | |
| Up to 20 years | 193 | 55.9 |
| 21+ years | 152 | 44.1 |
| Median age | 20.0 | - |
| Frequency of drug injections within the past week | | |
| Not injected | 19 | 5.5 |
| Once a week | 3 | 0.9 |
| 2-3 times a week | 28 | 8.1 |
| 4-6 times a week | 53 | 15.4 |
| Once a day | 75 | 21.7 |
| 2-3 times a day | 139 | 40.3 |
| 4 or more times a day | 28 | 8.1 |
| Frequency of drug injections on the last injected day | | |
| 1 time | 156 | 45.2 |
| 2 times | 104 | 30.2 |
| 3 or more times | 85 | 24.6 |
| Mean | 2.0 | - |

About 23 percent of IDUs had not injected on the day preceding the interview. For one-third of the IDUs the main reason was lack of money, while for about 31 percent the reason was unavailability or lack of drugs. Other reasons cited were desire to quit slowly, because the IDUs were busy with household work, illness, as well as other various reasons (Annex - 9).

Respondents inject drugs into different parts of the body depending on where they were able to locate their veins. Two-fifths of the respondents (40%) mentioned that they injected into their calves, while 27.5 percent injected into their forearm, 14.8 percent injected into their wrists and 10.2 percent injected into their upper arms (Annex - 10).

The respondents gathered at different sites to inject drugs; 41.7 percent gathered and injected in the forest/bush and 25.5 percent crossed the border to inject at the nearby Indian town of Jogbani. Others gathered and injected in their own or their friends' rooms (13.6%) or at a riverbank/slum area (9.6%) (Annex 11).

Table 5.4 lists the types of drugs used by the IDUs during the past week. Ninety-two percent of them had used a combination of various drugs. In this regard, the most common combination of drugs were Norphin, Avil and Diazepam (See Annex 12 for other types of combinations). Around one percent each had also injected brown sugar (1.4%), Dipezam (1.4%) Phenergan (0.9%) and Calmpose (0.6%) in the last week.

Table 5.4: Types of Drugs Injected by IDUs in the Last Week

| Types of Drugs Injected in the Last Week | N=345 | % |
|--|-------|------|
| Combination | 319 | 92.5 |
| Tidigesic | 11 | 3.2 |
| Brown Sugar | 5 | 1.4 |
| Diazepam | 5 | 1.4 |
| Phenergan | 3 | 0.9 |
| Calmpose | 2 | 0.6 |
| Others | 11 | 3.2 |

Note: Because of multiple answers, the percentages may add up to more than 100.

There were a few IDUs (3.5%) who had switched from one drug to another in the past month. The unavailability of drugs in the market, lack of money and desire to reduce drug injection/quit slowly were mentioned as reasons for switching (Annex 13).

5.3 Syringe Use and Sharing Behavior

The drug injecting/sharing habits of the respondents were assessed in terms of their last three injections. Respondents were asked how they had obtained the needle/syringe used for the last three injections. Answers provided by the IDUs have been categorized as low or high risk injecting behavior in Table 5.5. Low risk was defined as using a new needle. High risk was using one's own previously-used syringe, use of needles and syringes given by friends or relatives, and the use of needles and syringes kept in public places by IDUs or by others (Table 5.5).

Table 5.5: Syringe Use and Sharing Behavior among IDUs during the Last Three Injections

| | | Drug Injecting Acts | | | | |
|---|-------------|---------------------|---------------------------|------|----------------------|------|
| Needle Syringe Use During Recent Drug Injections | Most Recent | | Recent Second Most Recent | | Third Most Recent | |
| | N | % | N | % | N | % |
| Low risk injection behavior | | | | | | |
| Used a purchased new needle/syringe | 160 | 46.4 | 151 | 43.8 | 152 | 44.1 |
| Used new needle/syringe given by NGO staff/volunteers/friends | 160 | 46.4 | 172 | 49.9 | 170 | 49.3 |
| Low risk behavior total | 320 | 92.8 | 323 | 93.6 | 322 | 93.3 |
| High risk injection behavior | | | | | | |
| Used own previously used needle/syringe | 22 | 6.4 | 17 | 4.9 | 18 | 5.2 |
| Used needle/syringe given by friend/relative after their use | 1 | 0.3 | 5 | 1.4 | 3 | 0.9 |
| Used needle/syringe that had been kept in public place by himself | 2 | 0.6 | 0 | 0.0 | 1 | 0.3 |
| Others | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 |
| High risk behavior total | 25 | 7.2 | 22 | 6.4 | 23 | 6.7 |
| Persons in the group using the same needle/syringe | | | | | | |
| 2 persons | 8 | 2.3 | 10 | 2.9 | 6 | 1.7 |
| 3 or more persons | 2 | 0.6 | 1 | 0.3 | 1 | 0.3 |
| None/Alone | 335 | 97.1 | 334 | 96.8 | 338 | 98.0 |

As reflected in Table 5.5, many of the IDUs avoided high-risk behavior in their last three injections. Overall, 92.8 percent in the most recent injections, 93.6 percent in the second most recent injections and 93.3 percent in third most recent injections had used a new syringe/needle either self-purchased or given to them by NGO staff or friends. Among them, more than half had used a self-purchased needle/syringe in all the three injections.

On the other hand, some IDUs reported engaging in high-risk behavior in the last three injections (7.2% in the most recent, 6.4 percent in second most recent and 6.7% in the third most recent injections). They had injected with a previously used needle/syringe used by them selves, given by friends, or left in a public place.

The respondents were also asked if they had shared their needles/syringes with others in the group. Two percent (2.3%) had shared the needle/syringe with at least one injecting partner in the most recent injection, 2.9 percent in the second most recent injection, and 1.7 percent had done so in the third most recent injection (Table 5.5).

Data on needle/syringe using behavior in the last week as well as in the last three most recent injections, points towards an increasing consciousness among current IDUs regarding the risks associated with needle/syringe sharing. Many IDUs had avoided high-risk behavior in the week preceding the survey.

Nevertheless, there is still room for improvement as 17.1 percent of IDUs (Fig.3)

had also shared a syringe with two or more injecting partners in the week preceding the survey. Among them, 94.9 percent had shared needle/syringe with their friends (Table 5.6). Similarly, 14.5 percent of IDUs had used a needle/syringe used by others, 10.7 percent had injected with a syringe left at a public place, and 10.1 percent had given their used needle/syringe to others at least once in the past week (Fig.3).

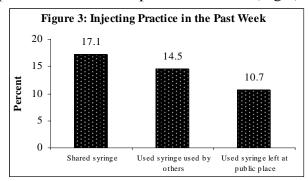


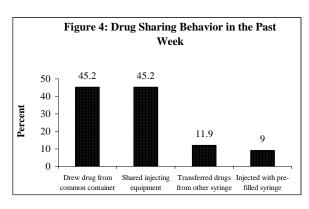
Table 5.6: Past Week's Syringe Use and Sharing Behavior among IDUs

| Needle/Syringe Use Throughout the Past Week | 20 | 2009 | | |
|---|-------|------|--|--|
| | N=345 | % | | |
| Number of needle/syringe shared partners | | | | |
| None | 286 | 82.9 | | |
| Two partners | 42 | 12.2 | | |
| Three or more partners | 17 | 4.9 | | |
| Type of needle/syringe shared partner* | n=59 | % | | |
| Friend | 56 | 94.9 | | |
| Unknown person | 1 | 1.7 | | |
| Drug seller | 1 | 1.7 | | |
| Others | 3 | 5.1 | | |

^{*} Note: Because of multiple answers, the percentages may add up to more than 100.

5.4 Drug Sharing Behavior

The injecting practice of the IDUs in the past week, as shown in Fig 4, shows that some IDUs had followed unsafe drug sharing practices in the past week. Around 45 percent of IDUs had shared some type of injecting equipment such as bottles, spoons, cookers, vials/containers, cotton/filters or water with others and forty-five



percent had shared a container for drawing solution at least once in the previous week. Moreover, about 12 percent had injected with a syringe that was filled by others' syringes, while nine percent had injected with a pre-filled syringe.

Relatively high percentage of IDUs had practiced high risk injecting behavior in the month preceding the survey. All the IDUs had injected drug in the past week. Twenty-seven percent had used non-sterile needle/syringe and 50.4 percent had used non-sterile injecting equipment in the month prior to the survey (Table 5.7).

Table 5.7: Past Month's Needle/syringe and Injecting Equipment Sharing Behavior

| Injecting Equipment Sharing Practice Past Month | N = 345 | % |
|--|---------|------|
| Used previously used non-sterile needle/syringe | | |
| Yes | 93 | 27.0 |
| No | 252 | 73.0 |
| Used non-sterile injecting equipment at any time | | |
| Yes | 174 | 50.4 |
| No | 171 | 49.0 |

Information on the internal and external mobility and injecting practices of the respondents at the place or places they visited was also collected during this survey. Out of the total 345 respondents in the Eastern Terai, 84.9 percent of IDUs had injected drugs elsewhere in Nepal or in other countries they had visited. It is important to remember that the study districts are close to the Indian border and movement across the border is not very difficult.

Although about 92 percent of IDUs had never injected with a pre-used syringe at the place or places of their visit; eight percent of IDUs had done so at least once. Fourteen percent of respondents had also given their used syringes to someone else at the place/s visited in the past year (Table 5.8).

Table 5.8: Injecting Behavior of IDUs in Other Parts of Country and Out of Country in the Past 12 Months

| Injecting Practice other Parts of the Country and Out of the Country | N | % |
|--|-----|-------|
| Injected in other parts of country / out of country | | |
| Yes | 293 | 84.9 |
| No | 52 | 15.1 |
| Total | 345 | 100.0 |
| Used a needle/syringe that had been used by others | | |
| Yes | 23 | 7.8 |
| No | 270 | 92.2 |
| Gave a needle/syringe to someone else after use | | |
| Sometimes (including all the time) | 41 | 14.0 |
| Never | 252 | 86.0 |
| Total | 293 | 100.0 |

5.5 Needle/Syringe Cleaning Practice

Previous studies have shown that some IDUs inject with previously used syringes/needles after washing them. Improper cleaning of shared and used needles/syringes increases the risk of HIV infection. Overall, 34 percent of respondents had cleaned a pre-used syringe/needle in the past week. Among them 12 percent used bleach; the rest cleaned them improperly with substances like saliva, water, distilled water, paper and urine (Table 5.9).

Table 5.9: Needle/Syringe Cleaning Practice of IDUs

| Needle/Syringe Cleaning Practice | N | % |
|--|-----|-------|
| Cleaned a pre-used needle/syringe in the past week | | |
| Yes | 116 | 33.6 |
| No | 229 | 66.4 |
| Total | 345 | 100.0 |
| Ways of cleaning needle/syringe | | |
| Bleach | 14 | 12.1 |
| Without Bleach | 102 | 87.9 |
| Total | 116 | 100.0 |

5.6 Knowledge of and Access to New Needles/Syringes

Almost all respondents (99.7%) said that they could obtain a new syringe whenever necessary. Needle exchange programs run by different NGOs and the drugstore were named as the main places for obtaining syringes by 98 percent and 89.6 percent of IDUs respectively. A little over one-third of respondents (35.4%) said that they could get a new syringe from drug sellers, and about one fourth (25.8%) said they could get a new syringe from the hospital. Moreover, 89 percent IDUs had received new needle/syringe from out reach worker/peer educator or from staff of needle exchange program in the last 12 months (Table 5.10).

Table 5.10: Knowledge of Sources of New Syringes

| Descriptions | N=345 | % |
|---|-------|------|
| Can obtain new syringe | | |
| Yes | 344 | 99.7 |
| No | 1 | 0.3 |
| Can obtain syringe from * | | |
| Drugstore | 338 | 98.0 |
| Needle exchange program | 309 | 89.6 |
| Drug seller | 122 | 35.4 |
| Hospital | 89 | 25.8 |
| Drug wholesaler | 57 | 16.5 |
| Friends | 35 | 10.2 |
| Other drug users | 35 | 10.2 |
| Health worker | 28 | 8.1 |
| Other shop | 4 | 1.2 |
| Others | 5 | 1.5 |
| Received new needle/syringe from out reach worker/peer educator or staff of needle exchange program in the last 12 months | | |
| Yes | 307 | 89.0 |
| No | 38 | 11.0 |

^{*}Note: Because of multiple answers, the percentages may add up to more than 100.

5.7 Treatment Practice

Table 5.12 shows the status of treatment received by IDUs in the study districts. Around 61 percent of respondents had not received any such treatment so far. Among IDUs who had received treatment before, more than half (54.8%) had received treatment less than a year ago while 8.9 percent had received their last treatment more than three years ago.

Table 5.11: Treatment Received and Types of such treatment

| Treatment for De-addiction | N | % |
|-----------------------------------|----------|-------|
| Treatment status | | |
| Ever treated | 135 | 39.1 |
| Never treated | 210 | 60.9 |
| To | otal 345 | 100.0 |
| Last treatment received | | |
| Less than 6 months | 36 | 26.7 |
| 6-11 months before | 38 | 28.1 |
| 12-23 months before | 33 | 24.4 |
| 24-35 months before | 15 | 11.1 |
| 36-47 months before | 7 | 5.2 |
| 48 or more months before | 5 | 3.7 |
| No response | 1 | 0.7 |
| To | otal 135 | 100.0 |
| Types of treatment received | | |
| Residential rehabilitation | 121 | 89.6 |
| Detoxification with/without drugs | 7 | 5.2 |
| Out patient counseling | 4 | 3.0 |
| Others | 3 | 2.2 |
| Forced for cold turkey | 2 | 1.5 |
| To | otal 135 | * |

^{*} Because of multiple answers, the percentages may add up to more than 100.

Overall, 89.6 percent of the IDUs who had undergone treatment were kept at residential rehabilitation centers run by different NGOs, while around 10 percent had been provided different types of detoxification treatment (for types of treatment and list of NGOs see Annex 14).

CHATPER - 6.0: SEXUAL BEHAVIOR AND CONDOM USE

HIV transmission among drug users is most often correlated with their needle/syringe-sharing behavior. This, combined with the risky sexual behavior of the study population often associated with drug use, contributes greatly towards making IDUs more vulnerable to HIV transmission. HIV infected IDUs further transmit the virus to their spouses or sex partners through unsafe sexual contact. In this chapter the sexual behavior of the respondents and their sex partners has been reviewed. This chapter also deals with the sexual history of the IDUs and condom use among them.

6.1 Sexual Behavior of IDUs

The majority of IDUs (92.5%) in the study districts reported to be sexually active and had engaged in sexual intercourse before. Among them, 84.3 percent had their first sexual contact before they turned 20 years. The median age of the respondents at their first sexual encounter was 17 years.

Out of those respondents who had sex before, 71.5 percent had been sexually active in the last year too. More than half (55.3%) had one female sex partner; the others (54.7%) had two or more sex partners during the same period (Table 6.1).

Table 6.1: Sexual Behavior

| Sexual Behavior | N | % |
|--|------|-------|
| Had sexual intercourse | 319 | 92.5 |
| Never had sexual intercourse | 26 | 7.5 |
| Total | 345 | 100.0 |
| Age at first sexual intercourse | | |
| Below 20 years | 269 | 84.3 |
| 20 years of age and above | 50 | 15.7 |
| Median Age | 17.0 | - |
| Sexual intercourse in the past 12 months | | |
| Yes | 228 | 71.5 |
| No | 91 | 28.5 |
| Total | 319 | 100.0 |
| Numbers of different sexual partners in the past 12 months | | |
| 1 partner | 126 | 55.3 |
| 2 or more partners | 102 | 54.7 |
| Total | 228 | 100.0 |

The sex partners of the study population were categorized under regular partners, non-regular partners and female sex workers. A 'regular female sex partner' is defined as spouse or any sexual partner living together with the respondent. Among those respondents who had maintained sexual contact, 33.9 percent had sex with a regular female sex partner during the past year. Nearly all of them (98.1%) had one regular sex partner and 82.4 percent had sex with their regular female sex partner in the month preceding the survey. About seven in ten respondents (71.9%) who had sex with their regular partners in the last month, had five or more sexual contacts with their last regular partner during this period.

Table 6.2: Sexual Intercourse of IDUs with Regular Female Sex Partners

| Sexual Practice | N | % |
|--|-----|-------|
| Sex with a regular partner during the past 12 months | | |
| Yes | 108 | 33.9 |
| No | 211 | 66.1 |
| Total | 319 | 100.0 |
| Number of Regular partner | | |
| 1 partner | 106 | 98.1 |
| 2 partners | 2 | 1.9 |
| Sex with a regular female sex partner during the last month | | |
| Yes | 89 | 82.4 |
| No | 19 | 17.6 |
| Total | 108 | 100.0 |
| Frequency of sex with a last regular partner during the last month | | |
| 1-4 | 25 | 28.1 |
| 5+ | 64 | 71.9 |
| Total | 89 | 100.0 |

The IDUs with sexual experience were also asked whether they ever had sex with non-regular female partners in the past year. 'Non-regular female sex partners' were defined as those with whom the participants were not married or living together. However, non-regular female sex partners were also defined as being distinct and separate from female sex workers. Table 6.3 shows that 30.4 percent of IDUs had sex with non-regular female sex partners in the past year. Of them, almost two-fifths (38.1%) had two or more non-regular female sex partners. About 42 percent had sexual contact with their non-regular female sex partners in the previous month. Among them, 22 percent had five sexual contacts or more.

Table 6.3: Sexual Intercourse of IDUs with Non-Regular Female Sex Partner

| Sexual Practice | N | % |
|---|-----|-------|
| Sex with non-regular partner in the past 12 months | | |
| Yes | 97 | 30.4 |
| No | 222 | 69.6 |
| Total | 319 | 100.0 |
| Number of Non-Regular partner | | |
| 1 partner | 60 | 61.9 |
| 2 or more partners | 37 | 38.1 |
| Sex with non-regular partner during last one month | | |
| Yes | 41 | 42.3 |
| No | 56 | 57.7 |
| Total | 97 | 100.0 |
| Frequency of sex with last non-regular partners during last one month | | |
| 1-4 | 32 | 78.0 |
| 5+ | 9 | 22.0 |
| Total | 41 | 100.0 |

Some of the IDUs also had had sex with female sex workers during the past year. 'Female sex workers' were defined as those who sell sex in exchange for cash, kind, or drugs. Around 28 percent of those IDUs who had sexual relations had sex with a female sex worker in the past year. Among them, the majority (68.9%) had sex with two or more female sex workers, while 42 percent had sexual encounters in the month preceding the survey. Among those who had sex with an FSW in the past month, 10.5 percent had five or more sexual contacts during the same period (Table 6.4).

Table 6.4: Sexual Intercourse of IDUs with Female Sex Worker

| Sexual Practice | N | % |
|--|-----|-------|
| Sex with female sex worker in the past 12 months | | |
| Yes | 90 | 28.2 |
| No | 229 | 71.8 |
| Total | 319 | 100.0 |
| Number of female sex workers in the past 12 months | | |
| 1 FSW | 28 | 31.1 |
| 2 or more FSWs | 62 | 68.9 |
| Sex with female sex worker during last one month | | |
| Yes | 38 | 42.2 |
| No | 52 | 57.8 |
| Total | 90 | 100.0 |
| Frequency of sex with a last female sex worker during the last month | | |
| 1- 4 | 34 | 89.5 |
| 5+ | 4 | 10.5 |
| Total | 38 | 100.0 |

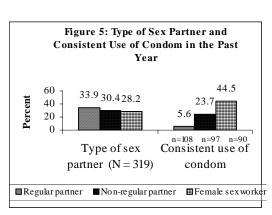
6.2 Knowledge and Use of Condoms

Condom promotion has been one of the important components of HIV/AIDS awareness campaigns. All the IDUs in this survey, had heard of condoms before but not all had used one the last time they had sex. As seen in Table 6.5, condom use was higher in the last sexual contact with female sex worker (73.3%) than with non-regular partners (32%) or regular partners (20.4%). In other words, 79.6 percent of IDUs had not used a condom the last time they had sex with a regular female partner, 68 percent had not used one with a non-regular female partner and 26.7 percent had not used a condom with sex workers during their last sexual contact (Table 6.5).

Table 6.5: Use of Condoms in the last Sex with Different Partners

| Use of Condom in the Last Sex | N | % |
|--|-----|-------|
| Condom use with regular partner during last sexual intercourse | | |
| Yes | 22 | 20.4 |
| No | 86 | 79.6 |
| Total | 108 | 100.0 |
| Condom use with non-regular partner during last sexual intercourse | | |
| Yes | 31 | 32.0 |
| No | 66 | 68.0 |
| Total | 97 | 100.0 |
| Condom use with female sex worker during last sexual intercourse | | |
| Yes | 66 | 73.3 |
| No | 24 | 26.7 |
| Total | 90 | 100.0 |

HIV/AIDS awareness campaigns focus on educating the target groups on the need to use condoms for every sexual act. In this context, Figure 5 presents information relating to the consistent use of condoms by IDUs with different female sexual partners during the year preceding the survey. Partner-wise, consistent condom use was found to be the lowest with regular partners (5.6%) followed by non-regular partners (23.7%). It was the highest with female sex workers (44.5%).



Respondents who reported not using a condom the last time they had sex were asked their reasons for not doing so. Data obtained from the study participants (Annex 14) indicates that the IDUs in the study districts avoided using condoms with their regular partners simply because they did not like them (38.4%); some also perceived condoms to be merely a contraceptive device, as 24.4 percent said that they had been using other contraceptive methods so did not use condoms consistently with their regular partners.

As for the reasons provided by IDUs for not using condoms with non-regular partners, 54.2 percent said that condoms were not available at the time of need, while half of them said that they did not like using condoms. About 35 percent of IDUs who had sex with FSWs said they could not use a condom because condoms were not available. Little more than a quarter (27.3%) said they did not like condoms and so did not use them the last time they had sex with a sex worker (Annex - 15).

6.3 Source of Condoms

The IDUs were also asked if they knew about the places from where they could obtain condoms. All the respondents knew at least one place from where they could obtain condoms; 95.9 percent said that they could get condoms from a pharmacy. Other sources of condoms as mentioned were peer/outreach educators (54.2%), paan shops (51%), hospitals (46.1%), shops (38.3%), clinics (24.1%), and Kirat Yakthum Chumlung (KYC) (21.4%). However, two third respondents had received condoms free of cost in the past year. Almost all (99.7%) of respondents said that they could get condoms in less than 30 minutes if necessary. Only one respondent said that it would take more than 30 minutes to get condoms from the nearest source (Table 6.6).

Table 6.6: Known Sources of Condom and Time Needed to Obtain It

| Sources of Condom and Time to Obtain it | N = 345 | % |
|---|---------|------|
| Place/person from where condom can be obtained * | | |
| Pharmacy | 331 | 95.9 |
| Peer Educator/Outreach Educator | 187 | 54.2 |
| Paan shop | 176 | 51.0 |
| Hospital | 159 | 46.1 |
| Shop | 132 | 38.3 |
| Clinic | 83 | 24.1 |
| KYC | 74 | 21.4 |
| Health worker/Health Post | 61 | 17.7 |
| Richmond | 56 | 16.2 |
| Night Chess Club | 47 | 13.6 |
| DYC | 37 | 10.7 |
| Family Planning Center | 34 | 9.9 |
| Samudayik Rehabilitation Center | 32 | 9.3 |
| Friends | 18 | 5.2 |
| Bar/Guesthouse/Hotel | 16 | 4.6 |
| Sahara Nepal | 9 | 2.6 |
| Safe the life | 9 | 2.6 |
| BDS | 8 | 2.3 |
| Belbari Plus | 5 | 1.4 |
| MRMG | 5 | 1.4 |
| YMS | 5 | 1.4 |
| New Hope | 4 | 1.2 |
| Others | 29 | 8.4 |
| Received condoms (free of cost) from organization in the past 12 months | | |
| Yes | 230 | 66.7 |
| No | 115 | 33.3 |
| Time taken to obtain condom | | |
| Less than 30 minutes | 344 | 99.7 |
| More than 30 minutes | 1 | 0.3 |
| More than 30 minutes | 1 | 0.3 |

*Note: Because of multiple answers, the percentages may add up to more than 100.

6.4 Sources of Information about Condoms

The respondents had heard about condoms from different sources. The most common sources of information for more than 90 percent of respondents were radio (96.5%), television (95.7%), newspapers/posters (94.2%), NGO workers (93.3%), billboards/signboards (93%) and the pharmacy (92.2%). A considerable proportion of respondents had also heard about condoms from friends/neighbors (84.3%) and hospitals (82.6%). Other information sources as mentioned by the respondents are listed in Table 6.7.

Table 6.7: Sources of Information about Condoms

| Sources of Knowledge of Condom | N = 345 | % |
|--------------------------------|---------|------|
| Radio | 333 | 96.5 |
| Television | 330 | 95.7 |
| Newspapers/posters | 325 | 94.2 |
| NGO workers | 322 | 93.3 |
| Bill board/sign board | 321 | 93.0 |
| Pharmacy | 318 | 92.2 |
| Friends/neighbors | 291 | 84.3 |
| Hospital | 285 | 82.6 |
| Health workers/volunteers | 273 | 79.1 |
| Health Post | 250 | 72.5 |
| Health Center | 226 | 65.5 |
| Community event/training | 215 | 62.3 |
| Street drama | 211 | 61.2 |
| Community worker | 188 | 54.5 |
| Cinema hall | 133 | 38.6 |
| Comic books | 112 | 32.5 |
| Video van | 31 | 9.0 |

Note: Because of multiple answers, the percentages may add up to more than 100.

In order to further analyze the exposure of IDUs to the ongoing initiatives to educate the target groups about condoms, the study participants were also asked if they were aware of any of the messages being publicized with the help of IEC materials such as posters, pamphlets, billboards or aired on radio/television. The survey asked the respondents about certain specific messages on condoms and HIV/STI prevention.

A considerable proportion of IDUs were aware of messages such as, 'Condom bata surakchhya youn swastha ko rakchhya' (84.3%); 'Youn rog ra AIDS bata bhachnalai' (84.3%); 'Ramro sanga prayog gare jokhim huna dinna' (82%); 'HIV/AIDS bare aajai dekhi kura garau' (81.7%), 'Jhilke dai chha chhaina condom' (79.4%); and, 'Condom kinna ma bhaya hunna ra' (77.7%).

Table 6.8: Exposure to Specific Condom Messages in the Past Year

| Table dot 211 opale to Specific Collabilities ages in the Table Teal | | | |
|--|-------|------|--|
| Heard/Seen/Read Messages/Characters in Past One Year | N=345 | % | |
| Condom Bata Surakchhya Youn Swastha ko Rakchhya | 291 | 84.3 | |
| Youn Rog Ra AIDS Bata Bachnalai Rakhnu Parchha Sarbatra Paine Condom Lai | 291 | 84.3 | |
| Ramro Sanga Prayog Gare Jokhim Huna DinnaBharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna | 283 | 82.0 | |
| HIV/AIDS Bare Aaji Dekhi Kura Garaun | 282 | 81.7 | |
| Jhilke Dai Chha Chhaina Condom | 274 | 79.4 | |
| Condom Kina Ma Bhaya Hunna Ra | 268 | 77.7 | |
| Maya Garaun Sadbhav Badaun | 195 | 56.5 | |
| Ek Apas Ka Kura | 117 | 33.9 | |
| Manis Sanga Manis Mile Hara Jeet Kasko Hunchha | 100 | 29.0 | |
| Des Pardes | 94 | 27.2 | |
| Others | 11 | 3.2 | |

Note: Because of multiple answers, the percentages may add up to more than 100.

CHAPTER – 7.0: KNOWLEDGE ABOUT STIS AND HIV/AIDS

This chapter deals with the level of knowledge about STIs and HIV/AIDS among IDUs in the Eastern Terai as well as respondents' awareness levels regarding the ways in which HIV is transmitted. Their knowledge about the availability of HIV testing facilities and perceptions of HIV testing are also covered in this chapter.

7.1 Knowledge about STIs

Table 7.1 shows that the majority of respondents (96.5%) had heard about STIs before. However there were 3.5 percent who had never heard about STIs before the survey.

Table 7.1: Awareness of STI

| Heard of STIs | N=345 | % |
|---------------|-------|------|
| Yes | 333 | 96.5 |
| No | 12 | 3.5 |

IDUs reporting to have heard about STIs had a general understanding of male and female STI symptoms. The most common symptoms cited by the respondents were genital ulcers/sores/blisters (72.1% in female and 84.8% in male); genital discharge (68.2% in female and 79.3% in male); and a burning sensation while urinating (44.4% in male and 61% in female). Symptoms such as foul smelling discharge (54.7%) and abdominal pain (15.9%) were specifically mentioned as female STI symptoms (Table 7.2).

Table 7.2: Known Symptoms of Male and Female STI

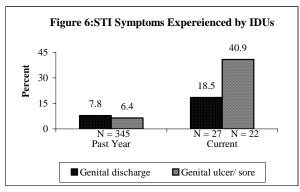
| STI Symptoms as Mentioned by IDUs | Among | Among Females | | Among Males | |
|-----------------------------------|-------|---------------|-------|-------------|--|
| | n=333 | % | n=333 | % | |
| Genital ulcer/sore blisters | 240 | 72.1 | 281 | 84.8 | |
| Genital discharge | 227 | 68.2 | 264 | 79.3 | |
| Foul-smelling discharge | 182 | 54.7 | | | |
| Burning/pain during urination | 148 | 44.4 | 203 | 61.0 | |
| Itching | 101 | 30.3 | 85 | 25.5 | |
| Abdominal pain | 53 | 15.9 | | | |
| Swelling in groin area | 26 | 7.8 | 34 | 10.2 | |
| Becoming thinner | 9 | 2.7 | 11 | 3.3 | |
| Fever | 8 | 2.4 | 11 | 3.3 | |
| Weakness | 4 | 1.2 | 0 | 0.0 | |
| Irregular Menstruation | 3 | 0.9 | | | |
| Bleeding | 3 | 0.9 | 0 | 0.0 | |
| Swelling Private Part | 2 | 0.6 | 4 | 1.2 | |
| Ulcer in the body | 2 | 0.6 | 3 | 0.9 | |
| Pain at sexual intercourse | 1 | 0.3 | 2 | 0.6 | |
| Pain in testicle | 0 | 0.0 | 4 | 1.2 | |
| Low appetite | 0 | 0.0 | 3 | 0.9 | |
| Genital pain | 0 | 0.0 | 4 | 1.2 | |
| Others | 10 | 3.0 | 11 | 3.3 | |
| Don't know | 42 | 12.6 | 29 | 8.7 | |

Note: Because of multiple answers, the percentages may add up to more than 100.

After assessing their awareness regarding STI symptoms, the respondents were asked if they ever had experienced symptoms such as genital discharge, genital ulcers/sores in the past year. In response, 7.8 percent of IDUs said that they had genital discharge, while 6.4 percent mentioned that they had genital ulcers/sores in the past year.

Among those IDUs who have had genital discharge in the past year, 18.5 percent had been experiencing genital discharge at the time of the study too. Similarly, 40.9 percent of those IDUs who have had genital ulcers/sores in the past year had been experiencing the symptom during the survey (Fig.6).

Overall, 13 percent of IDUs reportedly had experienced at least one STI symptom so far. Little more than half (52.5%) of them had not sought any medical aid to treat the symptoms. Some had been to a doctor (23.3%) private or hospital/health post (7.9%). Relatively large proportion of IDUs with STI symptoms had gone to other persons/places than private doctors and



hospitals/health posts for the treatment (Table 7.3).

Table 7.3: STI Symptom Experienced and Treatment Sought

| STI Symptoms and Treatment | N | % |
|----------------------------|-----|-------|
| STI Experience | | |
| Never had STI symptoms | 302 | 87.5 |
| Ever had some symptoms | 43 | 12.5 |
| Total | 345 | 100.0 |
| Source of treatment | | |
| Private Doctor | 10 | 23.3 |
| Hospital/Health Post | 3 | 7.9 |
| Others | 7 | 16.3 |
| Did not seek treatment | 23 | 52.5 |
| Total | 43 | 100.0 |

7.2 Knowledge about HIV/AIDS

All the respondents had heard of HIV/AIDS before. More than three-quarters (77.4%) knew people who had HIV/AIDS or had died from the disease. When asked about the kind of relationship they shared with those people, 46.1 percent said they were their close friends and 15 percent said they were their relatives. Another 36 percent shared no relationship with the people who they knew had HIV/AIDS or had died because of the disease (Table 7.4).

Table 7.4: Awareness of HIV/AIDS

| Knowledge of HIV/AIDS | N | % |
|---|-----|-------|
| Know anyone living with HIV/AIDS or died due to | | |
| AIDS | | |
| Yes | 267 | 77.4 |
| No | 78 | 22.6 |
| Total | 345 | 100.0 |
| Nature of relationship with the deceased | | |
| Close friend | 123 | 46.1 |
| Close relative | 40 | 15.0 |
| Both - Close relative and close friend | 8 | 3.0 |
| No relation | 96 | 36.0 |
| Total | 267 | 100.0 |

The respondents' knowledge regarding ways in which HIV is transmitted was also analyzed with the help of some questions regarding HIV/AIDS prevention measures. In this regard, their understanding of the three main HIV/AIDS prevention measures including abstinence from sex (A), being faithful to one sex partner (B), and consistent condom use (C) was assessed.

The majority of the IDUs were aware that abstinence from sex (A); being faithful to one sexual partner (B), and using a condom every time during sex (C) prevented them from contracting HIV (89%, 97.4% and 99.7% respectively). Overall, 87 percent of IDUs were aware of all the three major measures of preventing HIV/AIDS

transmission A, B and C (Fig. 7).

Additionally, 97.1 percent were aware that a healthy-looking person can be infected with HIV (D) and 91.6 percent knew that sharing a meal with an HIV infected person did not transmit HIV (F). However, comparatively fewer IDUs (67.8%) agreed that a person could not get HIV virus from a mosquito bite (E) (Table 7.5). In total, 63.2 percent of IDUs were aware of all five major indicators, 'BCDEF' (Fig 7).

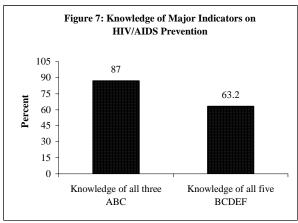


Table 7.5: Knowledge about Major Ways of Avoiding HIV/AIDS

| Knowledge of Six Major Indicators on HIV/AIDS | N=345 | % |
|--|-------|------|
| HIV transmission can be avoided through: | | |
| A Abstinence from sexual contact | 307 | 89.0 |
| B Being faithful to one partner | 336 | 97.4 |
| C Condom use during each sexual contact | 344 | 99.7 |
| Perception regarding HIV/AIDS: | | |
| D A healthy-looking person can be infected with HIV | 335 | 97.1 |
| E A person can not get the HIV virus from mosquito bite | 234 | 67.8 |
| F Sharing a meal with an HIV infected person does not transmit HIV virus | 316 | 91.6 |

The IDUs' understanding of HIV/AIDS and its different modes of transmission were further tested with the help of certain probing questions. All respondents said that HIV can be transmitted through the transfusion of blood from an infected person to another; that a person can get HIV by using a previously used needle/syringe (98.8%); that a person cannot get HIV just by holding an HIV infected person's hand (98.3%); that an intravenous drug user can protect himself from HIV by switching to non-injecting drugs (91.9%); and that a pregnant woman infected with HIV/AIDS can transmit the virus to her unborn child (84.6%). A relatively lower percentage of respondents (62%) said that women with HIV can transmit the virus to their newborn child through breastfeeding.

When asked if they were aware of any way in which a pregnant woman can reduce the risk of transmission of HIV to her unborn child, 53.4 percent said that they were not aware of any such measures, while the rest suggested that they should take medicine (32.2%) and follow a doctor's advice (7.9%) (Table 7.6).

Table 7.6: IDUs' Knowledge on Ways of HIV/AIDS Transmission

| Statements Related to HIV/AIDS | N=345 | % |
|---|-------|-------|
| Blood transfusion from an infected person to the other transmit HIV | 345 | 100.0 |
| A person can get HIV by using previously used needle by others | 341 | 98.8 |
| A person can not get HIV by holding an HIV infected person's hand | 339 | 98.3 |
| An IDU can protect themselves from HIV/AIDS by switching to non-injecting drugs | 317 | 91.9 |
| A pregnant woman infected with HIV/AIDS can transmit the virus to her unborn child | 292 | 84.6 |
| A woman with HIV/AIDS can transmit the virus to her new-born child through breastfeeding | 214 | 62.0 |
| Ways by which a pregnant woman can reduce the risk of transmission of HIV to her unborn child n=292 | | |
| Take medicine | 94 | 32.2 |
| Treatment/ consultation with doctor | 23 | 7.9 |
| Nothing | 9 | 3.1 |
| Others | 10 | 3.4 |
| Don't Know | 156 | 53.4 |

7.3 Knowledge about HIV Testing Facilities

The availability of confidential HIV testing facilities allows people to have an HIV test promptly and without the fear of being exposed. Although a good proportion of the IDUs (96.5%) were aware of the existence of HIV testing facility in their communities, around three percent of them said they did not know of any provision for HIV tests.

Thirty-eight percent of respondents had never tested themselves for HIV, while the rest (62%) had tested for HIV before. Among them, 92.1 percent had taken up the test voluntarily and 89.3 percent had received the test result. Although 55.6 percent of IDUs had taken up the test within the past year, others (44.4%) had got themselves tested more than a year ago (Table 7.7).

Table 7.7: Knowledge about HIV Testing Facilities and History of HIV Test

| Description of HIV Testing | N | % |
|---|-----|-------|
| A confidential HIV testing facility is available in the community | | |
| Yes | 333 | 96.5 |
| No | 12 | 3.5 |
| Don't know | 0 | 0.0 |
| Ever had an HIV test | | |
| Yes | 214 | 62.0 |
| No | 131 | 38.0 |
| Total | 345 | 100.0 |
| Type of test taken | | |
| Required HIV test | 17 | 7.9 |
| Voluntary HIV test | 197 | 92.1 |
| Test result received | | |
| Yes | 191 | 89.3 |
| No | 23 | 10.7 |
| Timing of last HIV test | | |
| Within the past year | 119 | 55.6 |
| 1-2 years ago | 57 | 26.6 |
| 2-4 years ago | 30 | 14.0 |
| More than 4 years ago | 8 | 3.7 |
| Total | 214 | 100.0 |

7.4 Source of Knowledge about HIV/AIDS

Radio (98%), pamphlets/posters (97.1%), television (96.5%), NGO workers (95.7%), billboard/signboard (95.7%), and friends/relatives (93%), were the most often cited sources of information regarding HIV/AIDS. A considerable proportion of the respondents had also received some information relating to HIV/AIDS from newspapers/magazines (87.5%), health workers/volunteers (86.4%), street drama (76.8%) and community events or training (73.9%). Other sources of information as mentioned by the IDUs are shown in Table 7.8, below.

Table 7.8: Sources of Knowledge Regarding HIV/AIDS

| Sources of Knowledge of HIV/AIDS | N=345 | % |
|----------------------------------|-------|------|
| Radio | 338 | 98.0 |
| Pamphlets/Posters | 335 | 97.1 |
| Television | 333 | 96.5 |
| NGO workers | 330 | 95.7 |
| Billboard/signboard | 330 | 95.7 |
| Friends/Relatives | 321 | 93.0 |
| Newspapers/Magazines | 302 | 87.5 |
| Health workers/Volunteers | 298 | 86.4 |
| Street drama | 265 | 76.8 |
| Community events or training | 255 | 73.9 |
| Community workers | 223 | 64.6 |
| School/Teachers | 208 | 60.3 |
| Workplace | 184 | 53.3 |
| Cinema halls | 167 | 48.4 |
| Comic books | 140 | 40.6 |
| Video van | 62 | 18.0 |

Note: Because of multiple answers, the percentages may add up to more than 100.

In the past year, the study participants had also received HIV/AIDS-related IEC materials from different sources. A large proportion of respondents (98.6%) had received information on HIV/AIDS. IEC materials such as brochures/booklet/pamphlets on HIV/AIDS had reached 89.3 percent of IDUs while 69.3 percent had received condoms/information relating to condoms (Table 7.9).

Table 7.9: Information/Materials Received During the Past Year

| Informative Materials Received | N=345 | % |
|---|-------|------|
| Condom/information on condom | | |
| Yes | 239 | 69.3 |
| No | 106 | 30.7 |
| Brochure/booklets/pamphlets on HIV/AIDS | | |
| Yes | 308 | 89.3 |
| No | 37 | 10.7 |
| Information on HIV/AIDS | | |
| Yes | 340 | 98.6 |
| No | 5 | 1.4 |
| Other IEC materials | | |
| Yes | 7 | 2.0 |
| No | 338 | 98.0 |

7.5 Perceptions about HIV/AIDS

The stigma associated with HIV/AIDS increases the impact of HIV on the patients as well as on MARPs. The perception of the IDUs regarding HIV-infected people and the stigma associated with the disease was examined with the help of a series of questions.

The majority of the respondents were ready to take care of an HIV-positive male relative or an HIV-positive female relative (98.6%, each) in their home if need be. More than half (55.9%), however, said that if a family member had HIV they would rather keep it confidential and not talk about it with others.

Nearly all respondents (98%) said that they would readily buy food from an HIV-infected vendor. The majority (97.4%) also agreed unless very sick, people with HIV/AIDS should be allowed to continue with their job.

When asked about the health care needs of HIV-infected persons, 56.2 percent of IDUs maintained that they should be provided with the same care and treatment deemed necessary for patients with other chronic diseases, while 39.1 percent believed that the health care needs of an HIV-infected person are much higher than for people suffering from other chronic diseases (Table 7.10).

Table 7.10: Attitude towards HIV/AIDS

| Individual Perception | N=345 | % |
|---|-------|------|
| Would readily take care of HIV positive male relative in the household | | |
| Yes | 340 | 98.6 |
| No | 5 | 1.4 |
| Would readily take care of HIV positive female relative in the household | | |
| Yes | 340 | 98.6 |
| No | 5 | 1.4 |
| Would prefer not to talk about a family member being HIV positive | | |
| Yes | 193 | 55.9 |
| No | 152 | 44.1 |
| Would readily buy food from HIV infected shopkeeper | | |
| Yes | 338 | 98.0 |
| No | 7 | 2.0 |
| Believe that the health care needs of a HIV infected person is the same, more or less than those required by someone with other chronic disease | | |
| Same | 194 | 56.2 |
| More | 135 | 39.1 |
| Less | 14 | 4.1 |
| Don't know | 2 | 0.6 |
| Believe that HIV infected person should be allowed to continue working unless very sick | | |
| Yes | 336 | 97.4 |
| No | 9 | 2.6 |

CHATPER – 8.0: EXPOSURE TO HIV/AIDS AWARENESS PROGRAMS

The exposure of the IDUs to the ongoing HIV/AIDS awareness programs and their participation in these activities has been examined. Respondents were asked several questions relating to different components of the current HIV/AID- related programs being run by different organizations.

8.1 Peer/Outreach Education

The peer/outreach education component consists of activities that involve the mobilization of peer educators (PEs) and community mobilizers (CMs) and outreach educators (OEs) who conduct awareness-raising activities at community sites. They meet the target groups and hold discussions with them regarding HIV/AIDS and safe injecting practices, safe sex and other related topics. They also distribute IEC materials, condoms, and refer the target group to drop-in centers and STI treatment services. Some also carry new needles/syringes for distribution among the IDUs.

The majority (90.7%) of the respondents had met PEs/OEs representing various organizations at least once. In such meetings, 91.7 percent had discussed safe injecting behavior while 87.5 percent had been told how HIV is transmitted from one person to the other. The study participants had also been informed about STIs and how they are transmitted (45.4%) and had discussed the use of condoms (22.7%).

Nearly two-fifths of IDUs had met PEs/OEs from Kirat Yakthum Chumlung (KYC) (38%). Some had also met PEs/OEs representing Richmond (33.2%); Knight Chess Club (KCC) (24.3%); and the Community Rehabilitation Center (18.2%). It is further evident from Table 8.1 that the IDUs meet PEs/OEs quite often, as in addition to the 7 percent of IDUs who had met them two or three times, all the others had met them more than four times in the past year. Over two-thirds of IDUs (65.8%) had met PEs/OEs more than once a month.

Table 8.1: IDUs' Meeting with Peer Educators/Outreach Educators in the Past Year

| Meeting with Peer Educators (PE) or Outreach Educators (OE) | N | % |
|--|-----------------|--------------|
| Met or discussed or interacted with PE or OE in the last 12 months | | |
| Yes | 313 | 90.7 |
| No | 32 | 9.3 |
| Total | 345 | 100.0 |
| Activities carried out with OE/PEs | | |
| Discussion on safe injecting behavior | 287 | 91.7 |
| Discussion on how HIV/AIDS is/isn't transmitted | 274 | 87.5 |
| Discussion on how STI is/isn't transmitted | 142 | 45.4 |
| Told about regular/non-regular use of condom | 71 | 22.7 |
| Provided condom use demonstration | 68 | 21.7 |
| Exchanged Syringe | 53 | 16.9 |
| Suggested to stay at rehabilitation center | 24 | 7.7 |
| Discussion of quitting drugs | 17 | 5.4 |
| Given Distilled Water | 7 | 2.2 |
| Given Condom | 6 | 1.9 |
| Given Alcohol Pad | 5 | 1.6 |
| Given Bleach | 4 | 1.3 |
| Discussion on how hepatitis B and C transmission | 2 | 0.6 |
| Others | 4 | 1.3 |
| Total | 313 | * |
| Organizations represented by OE/PEs | 616 | |
| KYC | 119 | 38.0 |
| RICHMOND | 104 | 33.2 |
| KCC | 76 | 24.3 |
| Community Rehabilitation Centre | 57 | 18.2 |
| DYC | 42 | 13.4 |
| YMS | 19 | 6.1 |
| Safe the Life | 15 | 4.8 |
| Dharan Positive Group | 12 | 3.8 |
| New Hope Foundation | 10 | 3.2 |
| SAHARA Nepal | 10 | 3.2 |
| ARC | 8 | 2.6 |
| Belbari plus | 6 | 1.9 |
| Nav Kiran | 5 | 1.6 |
| Wisdom | 5 | 1.6 |
| Gurukul | 5 | 1.6 |
| BDS | 4 | 1.3 |
| Life Line | 3 | 1.0 |
| LALS | 1 | 0.3 |
| Aastha | 1 | 0.3 |
| Others | 9 | 2.9 |
| Total | 313 | * |
| Number of meeting with PE or OE | | |
| Once | 3 | 1.0 |
| | 23 | 7.3 |
| 2-3 times | | 14.4 |
| 2-3 times 4-6 times | 45 | |
| 4-6 times | 45 36 | |
| | 45 36 206 | 11.5 65.8 |

^{*} Note: Because of multiple answers, the percentages may add up to more than 100.

8.2 Drop-in-Centers

Drop-in-centers (DICs) are another important component of HIV prevention programs. The DICs not only provide a safe space for the target communities to socialize, but are also the site for educational and counseling activities. DICs offer a number of services to the target groups, including counseling, group classes, group discussions, individual counseling, and video shows on STIs/HIV/AIDS. Certain NGOs also run needle exchange programs through their DICs. The IDUs are also provided with IEC materials and condoms at the DICs.

About eighty-seven percent of the respondents had visited a DIC in the past year. The majority of them (97.7%) had been to a DIC to get a new syringe. The respondents had been informed about safe injecting behavior at the DIC (57.9%) and had collected condoms from the center (31.5%). Three in ten had also participated in discussions on HIV transmission (31.1%) at a DIC.

DICs visited by the respondents were run by various organizations implementing HIV/AIDS awareness and prevention programs in the region, such as KYC and Richmond (34.8%, each); KCC (24.5%); and Community Rehabilitation Center (20.5%). Most of the IDUs had been to a DIC more than once in the past year (98.7%). Around 81 percent of IDUs had visited DICs more than 12 times in the past year (Table 8.2).

Table 8.2: DIC Visiting Practices in the Past Year

| DIC Visiting Practices | N | % |
|--|-----|-------|
| DIC visit in the last 12 months | | |
| Yes | 302 | 87.5 |
| No | 43 | 12.5 |
| Total | 345 | 100.0 |
| Participated activities at DIC | | |
| Got new syringe | 295 | 97.7 |
| Learnt about safe injecting behavior | 175 | 57.9 |
| Collected condoms | 95 | 31.5 |
| Participated in discussion on HIV transmission | 94 | 31.1 |
| Watched film on HIV/AIDS | 53 | 17.6 |
| Learnt the correct way of using condom | 47 | 15.6 |
| Got Distilled Water | 21 | 7.0 |
| Got alcohol pad | 18 | 6.0 |
| Got Bleach | 14 | 4.6 |
| Got medicine | 8 | 2.6 |
| Provided treatment | 8 | 2.6 |
| Gave old syringe back | 7 | 2.3 |
| Participated in discussion on reducing drug taking | 3 | 1.0 |
| Had wound dressing | 3 | 1.0 |
| Others | 5 | 1.7 |
| Total | 302 | * |
| Name of organizations that run DIC visited by them | | |
| KYC | 105 | 34.8 |
| RICHMOND | 105 | 34.8 |
| KCC | 74 | 24.5 |
| Community Rehabilitation Center | 62 | 20.5 |
| DYC | 37 | 12.3 |
| YMS | 18 | 6.0 |
| Safe the Life | 11 | 3.6 |
| New Hope Foundation | 7 | 2.3 |
| Belbari Plus | 6 | 2.0 |
| Sahara Nepal | 5 | 1.7 |
| NIDS | 3 | 1.0 |
| Others | 11 | 3.6 |
| Total | 302 | * |
| Number of visits to the DICs | | |
| Once | 4 | 1.3 |
| 2-3 times | 9 | 3.0 |
| 4-6 times | 19 | 6.3 |
| 7-12 times | 24 | 7.9 |
| More than 12 times | 246 | 81.5 |
| Total | 302 | 100.0 |

^{*} Note: Because of multiple answers, the percentages may add up to more than 100.

8.3 STI Clinics

The IDUs who engage in unsafe sexual encounters are at risk of contracting certain sexually transmitted infections (STIs). Timely detection of STIs may prevent serious health hazards. There are different clinics being run by different government as well as non-government organizations to provide STI testing and treatment facilities. Nevertheless, the majority of the respondents (93.9%) had not been to an STI clinic in the past year.

Among the few (6.1%) who had visited an STI clinic, most had been accompanied by a friend (47.6%). About 43 percent had received a physical examination for STI detection, had discussed how STIs are/are not transmitted and had tested blood for STIs (28.6%, each). They were also informed about use of condoms and safe injecting behavior at the clinic (Table 8.3).

STI clinics that respondents visited about a quarter (28.6%) were run by Mountain Hill Resource Management Group (MRMG). About 52 percent of respondents had paid one visit to the STI clinic while the remaining 43 percent had been there two or three times in the past year.

Table 8.3: STI Clinic Visiting Practices in the Past Year

| STI Clinic Visiting Practices | N | % |
|---|----------|-------|
| Visited any STI clinic in the last 12 months | | |
| Yes | 21 | 6.1 |
| No | 324 | 93.9 |
| To | otal 345 | 100.0 |
| Participated activities at STI clinic | | |
| Accompanied a friend | 10 | 47.6 |
| Physical examination conducted for STI identification | 9 | 42.9 |
| Participated in discussion how STI is/isn't transmitted | 6 | 28.6 |
| Blood tested for STI detection | 6 | 28.6 |
| Participated in discussion on regular/non-regular use of condom | 2 | 9.5 |
| Participated in discussion on safe injecting behavior | 1 | 4.8 |
| To | otal 21 | * |
| Name of organizations that run STI clinic visited by them | | |
| MRMG | 6 | 28.6 |
| Private clinic | 5 | 23.8 |
| AMDA | 2 | 9.5 |
| FPAN | 2 | 9.5 |
| Others | 8 | 38.1 |
| To | otal 21 | * |
| Number of visits to STI clinics | | |
| Once | 11 | 52.4 |
| 2-3 times | 9 | 42.9 |
| More than 3 times | 1 | 4.8 |
| To | otal 21 | 100.0 |

^{*} Note: Because of multiple answers, the percentages may add up to more than 100.

8.4 VCT Centers

VCT centers form an integral part of the HIV/AIDS prevention program. VCT centers not only provide HIV/STI testing facilities but also offer pre- and post- test counseling. In addition to other necessary information related to safe injecting practices, HIV/AIDS/STI transmission, treatment facilities are also provided for visitors at these centers.

About one third of IDUs (33.6%) had been to a VCT center in the past year. Nearly all of them had given their blood for HIV testing at the center (95.7%); while 89.7% had received test results; 86.2% had received pre-HIV test counseling; 75.9 % had received post-HIV test counseling; and 50.9% had got information on safe injecting behavior.

Almost 32 percent of IDUs had visited the VCT center run by the Association of Medical Doctors of Asia (AMDA). Additionally 24.1 percent of IDUs had visited each of the VCT centers run by Kirat Yakthum Chumlung (KYC) and Mountain Hill Resource Management Group (MMRG). About 38 percent had been to a VCT center once, while around 53 percent had visited a VCT two or three times in the past year (Table 8.4).

Table 8.4: VCT Visiting Practices in the Past Year

| VCT Visiting | N | % |
|--|-----|-------|
| Visited VCT center in the last 12 months | | |
| Yes | 116 | 33.6 |
| No | 229 | 66.4 |
| Total | 345 | 100.0 |
| Participated activities at VCT | | |
| Blood sample taken for HIV test | 111 | 95.7 |
| Received HIV test result | 104 | 89.7 |
| Received pre HIV test counseling | 100 | 86.2 |
| Received post HIV test counseling | 88 | 75.9 |
| Received information on safe injecting behavior | 59 | 50.9 |
| Got information on HIV/AIDS window period | 55 | 47.4 |
| Received counseling on using condom correctly in each sexual intercourse | 42 | 36.2 |
| Accompanied a friend | 5 | 4.3 |
| Others | 2 | 1.7 |
| Total | 116 | * |
| Name of the organization that run the VCTs visited by them | | |
| AMDA | 37 | 31.9 |
| KYC | 28 | 24.1 |
| MRMG | 28 | 24.1 |
| NIDS | 6 | 5.2 |
| KCC | 5 | 4.3 |
| BPKISH | 4 | 3.4 |
| SIDS | 3 | 2.6 |
| FPAN | 2 | 1.7 |
| Youth Vision | 1 | 0.9 |
| Others | 5 | 4.3 |
| Don't Know | 1 | 0.9 |
| Total | 116 | * |
| Number of Visits to VCTs | | |
| Once | 44 | 37.9 |
| 2-3 times | 61 | 52.6 |
| 4-6 times | 9 | 7.8 |
| More than 6 times | 2 | 1.7 |
| Total | 116 | 100.0 |

^{*} Note: Because of multiple answers, the percentages may add up to more than 100.

8.5 Participation in HIV/AIDS Awareness Programs

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

About half of the respondents (49%) in the study districts had never participated in any HIV/AIDS awareness-raising program or similar community event so far. Among others (51%) who had participated in such activities at least once, 75 percent had taken part in street drama and around 66 percent in AIDS Day celebrations. About 44 percent of IDUs had participated in Condom Day celebrations and 16 percent had taken part in HIV/AIDS-related group discussions. The activities respondents mentioned were conducted by KYC (40.9%), KCC (19.3%) and other organizations as listed in Table 8.5.

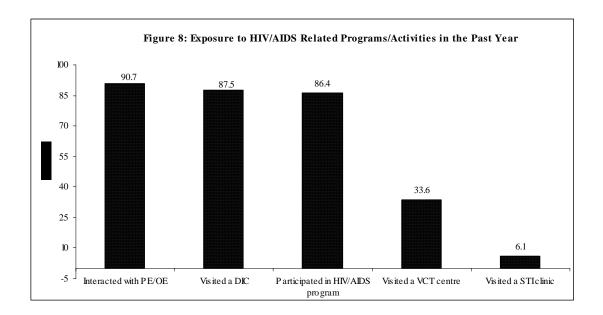
Among those who had taken part in an HIV/AIDS awareness program, 28.4 percent had participated in one activity in the past year, while 58 percent had participated in two or more events (Table 8.5).

Table 8.5: Participation in HIV/AIDS Awareness Programs

| Participations in HIV/AIDS Awareness Programs | N | % |
|---|-----|-------|
| Ever Participated in HIV/AIDS awareness raising program or community events | | |
| Yes | 176 | 51.0 |
| No | 169 | 49.0 |
| Total | 345 | 100.0 |
| Participated activities | | |
| Street drama | 132 | 75.0 |
| AIDS Day | 116 | 65.9 |
| Condom Day | 78 | 44.3 |
| Group discussions | 29 | 16.5 |
| HIV/AIDS related training | 18 | 10.2 |
| Condom demonstration | 11 | 6.3 |
| Video Show | 9 | 5.1 |
| HIV/AIDS related Workshops | 2 | 1.1 |
| Others | 4 | 2.3 |
| Total | 176 | * |
| Name of the organizations that organized such activities | | |
| KYC | 72 | 40.9 |
| KCC | 34 | 19.3 |
| AMDA | 24 | 13.6 |
| DYC | 14 | 8.0 |
| Recovery Nepal | 12 | 6.8 |
| Richmond | 10 | 5.7 |
| BDS | 9 | 5.1 |
| Sahara Nepal | 9 | 5.1 |
| DPG | 8 | 4.5 |
| Life Line | 7 | 4.0 |
| New Hope Foundation | 6 | 3.4 |
| ARC | 4 | 2.3 |
| Anam Natya Samuha | 3 | 1.7 |
| ADAC | 3 | 1.7 |
| YMS | 2 | 1.1 |
| Community Rehabilitation Center | 1 | 0.6 |
| LALS | 1 | 0.6 |
| Namuna | 1 | 0.6 |
| Others | 34 | 19.3 |
| Don't Know | 11 | 6.3 |
| Total | 176 | * |
| Frequency of such participation in past 12 months | | |
| Once | 50 | 28.4 |
| 2-3 times | 73 | 41.5 |
| 4-6 times | 25 | 14.2 |
| More than 6 times | 4 | 2.3 |
| Not participated during the past year | 24 | 13.6 |
| Total | 176 | 100.0 |

^{*} Note: Because of multiple answers, the percentages may add up to more than 100.

If we compare the exposure of the IDUs to different HIV/AIDS-related program/ activities in the past year, it can be seen that they have more interaction with OEs/PEs, and more DIC visits and participation in HIV/AIDS programs (Figure 7) than visits to STI clinics and VCT centers.



CHATPER – 9.0: A COMPARATIVE ANALYSIS OF SELECTED CHARACTERISTICS

This chapter seeks to analyze the trend in the selected indicators using the data from the first, the second, the third and the fourth rounds of IBBS conducted in 2009 in Eastern Terai highway districts of Nepal. It specifically examines socio-demographic characteristics, drug injecting habits, needle/syringe using, and condom use behavior among IDUs. It should be noted here that these comparisons are only possible because the same sampling design and procedures were used in all of the four rounds.

9.1 Socio-demographic Characteristics

The socio-demographic characteristics of the study participants present a similar pattern in all four rounds. This is to a certain extent, a consequence of adopting the same sampling methodology for all four rounds (Table 9.1).

IDUs were young in all four surveys, the median age decreased to 24 in 2009 compared to 25 in 2003, 2005 and 2007. The proportion of respondents younger than 25 years increased from 45.5 percent in the first two rounds and 49 percent in the third round to 51 percent in the fourth round of the survey. However, the increase is not statistically significant.

Table 9.1: Socio-Demographic Characteristics

| Socio-demographic characteristics | First i | | Second (20 | | Third (20 | round 07) | Fourth round (2009) | | |
|--------------------------------------|---------|------|---------------|------|--------------|--------------|---------------------|------|--|
| cnaracteristics | N=345 | % | N=345 | % | N=345 | % | N=345 | % | |
| Age | | | | | | | | | |
| < 25 Yrs | 157 | 45.5 | 157 | 45.5 | 169 | 49.0 | 176 | 51.0 | |
| >25 Yrs | 188 | 54.5 | 188 | 54.5 | 176 | 51.0 | 169 | 49.0 | |
| Median age | 25 | - | 25 | | 25 | - | 24 | | |
| Education | | | | | | | | | |
| Illiterate | 15 | 4.3 | 18 | 5.2 | 8 | 2.3 | 10 | 2.9 | |
| Literate only | 5 | 1.4 | 5 | 1.4 | 10 | 2.9 | 18 | 5.2 | |
| Primary | 48 | 13.9 | 76 | 22.0 | 59 | 17.1 | 55 | 16.0 | |
| Secondary | 200 | 58.0 | 177 | 51.3 | 195 | 56.5 | 165 | 47.8 | |
| SLC & above | 77 | 22.3 | 69 | 20.0 | 73 | 21.2 | 97 | 28.1 | |
| Ethnicity | | | | | | | | | |
| Gurung/Rai/Limbu | 120 | 34.8 | 62 | 18.0 | 119 | 34.5 | 112 | 32.5 | |
| Chhetri/Thakuri | 56 | 16.2 | 59 | 17.1 | 55 | 15.9 | 58 | 16.8 | |
| Tamang/Lama/Magar/Sherpa | 41 | 11.9 | 81 | 23.5 | 45 | 13.0 | 38 | 11.0 | |
| Newar | 27 | 7.8 | 48 | 13.9 | 26 | 7.5 | 40 | 11.6 | |
| Brahmin | 26 | 7.5 | 13 | 3.8 | 18 | 5.2 | 12 | 3.5 | |
| Terai caste | 16 | 4.6 | 23 | 6.7 | 19 | 5.5 | 37 | 10.7 | |
| Occupational caste | 13 | 3.8 | 21 | 6.1 | 15 | 4.3 | 21 | 6.1 | |
| Musalman | 12 | 3.5 | 7 | 2.0 | 6 | 1.7 | 9 | 2.6 | |
| Rajbanshi | 8 | 2.3 | 6 | 1.7 | 9 | 2.6 | 6 | 1.7 | |
| Chaudhary/Tharu | 6 | 1.7 | 8 | 2.3 | 11 | 3.2 | 2 | 0.6 | |
| Giri/Puri/Sanyasi | 5 | 1.4 | 6 | 1.7 | 4 | 1.2 | 1 | 0.3 | |
| Mandal | 5 | 1.4 | 3 | 0.9 | 3 | 0.9 | 0 | 0.0 | |
| Teli/Shah | 4 | 1.2 | 3 | 0.9 | 1 | 0.3 | 3 | 0.9 | |
| Majhi/Chepang | 0 | 0.0 | 0 | 0.0 | 9 | 2.6 | 6 | 1.7 | |
| Bhujel | 0 | 0.0 | 0 | 0.0 | 4 | 1.2 | 0 | 0.0 | |
| Others (Other Hill Caste) | 6 | 1.7 | 5 | 1.4 | 1 | 0.3 | 0 | 0.0 | |

The education status of the respondents has changed significantly with regard to those who were literate only and those who had completed secondary level schooling across the four rounds. The proportion of literate respondents increased from 1.4 percent in the first two rounds as well as 2.9 percent in the third round to 5.2 percent in the fourth round of the survey. Similarly, the percentage of IDUs with SLC and above education has increased to 28.1 percent in 2009 from 22.3 percent in 2003.

The ethnic/caste composition of the IDUs has not shown a significant difference since the first round. The Gurung/Rai/Limbu, Chhetri/Thakuri and Tamang/Lama/Magar/ Sherpa ethnic groups were the main ethnic groups represented in the sample in all four surveys.

9.2 Drug Injecting Practices

Most of the study participants had been injecting drugs for more than a year in all four rounds, with the average duration of 4.1 years in 2003, five years in 2005, 4.8 years in 2007 and 4.6 years in 2009. Those respondents who had been injecting for less than two years made up 29 percent of the total respondents in 2003, 20 percent each in 2005 and in 2007, and 26.7 percent in 2009.

The median age of the respondents at their first injection was 21 years in 2003, while it came down to twenty and remained the same in 2005, 2007 and 2009. The proportion of IDUs having their first injecting experience before they were 20 years increased steadily from 45.8 percent in 2003, to 51 percent in 2005 to 58.6 percent in 2007, before coming down to 55.9 percent in 2009.

Table 9.2: Drug Injecting Practices

| Drug Injecting Practice | First round (2003) | | Second round (2005) | | Third round (2007) | | Fourth round (2009) | |
|----------------------------------|--------------------|------|------------------------|------|-----------------------|------|---------------------|------|
| | N=345 | % | N=345 | % | N=345 | % | N=345 | % |
| Duration of drug Injection habit | | | | | | | | |
| Up to 11 months | 44 | 12.8 | 31 | 9.0 | 33 | 9.6 | 40 | 11.6 |
| 12–23 months | 56 | 16.2 | 38 | 11.0 | 36 | 10.4 | 52 | 15.1 |
| 24-59 months | 113 | 32.8 | 124 | 35.9 | 117 | 33.9 | 117 | 33.9 |
| More than 60 months | 132 | 38.3 | 152 | 44.1 | 159 | 46.1 | 136 | 39.4 |
| Average duration years | 4.1 | • | 5.0 | | 4.8 | | 4.6 | - |
| Age at first drug injection | | | | | | | | |
| Up to 20 years | 158 | 45.8 | 176 | 51.0 | 202 | 58.6 | 193 | 55.9 |
| 21+ years | 187 | 54.2 | 169 | 49.0 | 143 | 41.4 | 152 | 44.1 |
| Median age | 21 | - | 20 | - | 20 | - | 20 | - |

9.3 Needle/Syringe Usage in the Past Week

Data relating to the injecting practices of the study population in the past week in the four rounds showed that the IDUs were increasingly more cautious and were avoiding risky behavior. The proportion of respondent who had consistently avoided injecting with others' previously used needles/syringes has increased significantly since the first round (66.4 % in 2003, 69.6 % in 2005, 86.1 % in 2007, and 85.5% in 2009). Although the fourth round of data has shown a slight increase in the proportion of IDUs who had used a needle/syringe kept in a public place at least once in the week preceding the survey compared to the third round, there has been a significant decrease in the proportion of such IDUs since the first round (23.5% in 2003, 24.3% in 2005, 6.7% in 2007 and 10.7 percent in 2009).

The proportion of IDUs who did not share their needles/syringes with anyone else in the past week also increased significantly from 49.9 percent in 2003 to 60 percent in 2005, 80 percent in 2007 and finally 82.9 percent in 2009. In the same way, fewer IDUs in the fourth round than in the first and second rounds had injected with a previously-used needle/syringe in the past week, compared to 64.9 percent in 2003, which went down to 56.8 percent in 2005 and 33.6 percent in 2009 (Table 9.3). This is a statistically significant decline in the percentages. Compared to the 2007 result, there has been a slight increase in the proportion of IDUs reporting that they had not shared their needles/syringes with anyone else in the past week in 2009 (80% and 82.9 %), however the increase is statistically insignificant.

Table 9.3: Syringe Using and Sharing Practice in Past Week

| Needle/syringe Use throughout the Past Week | First round (2003) | | Second round (2005) | | Third round (2007) | | Fourth round (2009) | |
|--|--------------------|------|------------------------|------|--------------------|------|---------------------|------|
| rast week | | | N=345 | % | N=345 | % | N=345 | % |
| Used a needle/syringe that had been used by another | | | | | | | | |
| Never Used | 229 | 66.4 | 240 | 69.6 | 297 | 86.1 | 295 | 85.5 |
| Ever Used | 116 | 33.6 | 105 | 30.4 | 48 | 13.9 | 50 | 14.5 |
| Used a needle/syringe that had been kept in public place | | | | | | | | |
| Never Used | 264 | 76.5 | 261 | 75.7 | 322 | 93.3 | 308 | 89.3 |
| Ever Used | 81 | 23.5 | 84 | 24.3 | 23 | 6.7 | 37 | 10.7 |
| Number of needle/syringe shared partners | | | | | | | | |
| None | 172 | 49.9 | 207 | 60.0 | 276 | 80.0 | 286 | 82.9 |
| Two partners | 85 | 24.6 | 76 | 22.0 | 49 | 14.2 | 42 | 12.2 |
| Three or more partners | 88 | 25.5 | 62 | 18.0 | 20 | 5.8 | 17 | 4.9 |
| Reused needle/syringe in the past week | | | | | | | | |
| Yes | 224 | 64.9 | 196 | 56.8 | 108 | 31.3 | 116 | 33.6 |
| No | 121 | 35.1 | 149 | 43.2 | 237 | 68.7 | 229 | 66.4 |

9.4 Condom Use with Different Partners

In the past year, relatively fewer IDUs used condoms consistently in sexual contact with regular female sex partners than with sex workers and non-regular female sex partners in all the four rounds. Partner-wise, consistent condom use with regular partners in the year preceding the survey was the lowest in the fourth round (5.6%) compared with the third, second and first rounds (9.2%, 11.3% and 12.2% respectively).

A change was observed in condom using practices with non-regular partners. Consistent condom use with non-regular partners had decreased to 23.7 percent in 2009 compared to 28 percent in 2003 and 24.1 in 2005; however in 2007, 33 percent had used condoms consistently with their non-regular partners.

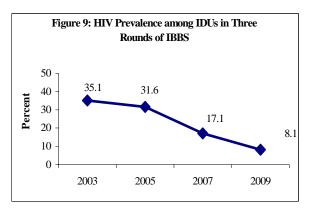
The consistent use of condoms with sex workers also decreased slightly to 44.5 percent in 2009 from 50 percent of IDUs in 2005; and 57.3 percent in 2007. However in 2003, 41.4 percent of IDUs only had used condom consistently when they had sexual contact with FSWs.

Table 9.4: Consistent Use of Condom with Different Sex Partners in the Past Year

| Consistent use of condom | First round (2003) | | Second round (2005) | | Third round (2007) | | Fourth round (2009) | |
|--|--------------------|-------|------------------------|-------|--------------------|-------|---------------------|-------|
| | | | N | % | N | % | N | % |
| Use of condom with regular female | | | | | | | | |
| sex partners during past 12 months | | | | | | | | |
| Every time | 15 | 12.2 | 14 | 11.3 | 12 | 9.2 | 6 | 5.6 |
| Sometimes - Never | 108 | 87.8 | 110 | 88.7 | 119 | 90.8 | 102 | 94.4 |
| Total | 123 | 100.0 | 124 | 100.0 | 131 | 100.0 | 108 | 100.0 |
| Use of condom with non-regular female sex partners during past 12 months | | | | | | | | |
| Every time | 14 | 28.0 | 19 | 24.1 | 30 | 33.0 | 23 | 23.7 |
| Sometimes – Never | 36 | 72.0 | 60 | 75.9 | 61 | 67.0 | 74 | 76.3 |
| Total | 50 | 100.0 | 79 | 100.0 | 91 | 100.0 | 97 | 100.0 |
| Use of condom with female sex workers during past 12 months | | | | | | | | |
| Every time | 29 | 41.4 | 42 | 50.0 | 51 | 57.3 | 40 | 44.5 |
| Sometimes – Never | 41 | 58.6 | 42 | 50.0 | 38 | 42.7 | 50 | 55.5 |
| Total | 70 | 100.0 | 84 | 100.0 | 89 | 100.0 | 90 | 100.0 |

9.5 HIV Prevalence among IDUs

HIV prevalence among the IDUs has decreased since the first round of the survey in 2003 (Fig. 9). The decrease in the HIV prevalence is statistically significant. The first round of the IBBS showed that the rate of infection was 35.1 percent among IDUs in the Eastern Terai, which decreased by a few percentage points in the second round (31.6%), falling further by 17.1 percent in the third round and to 8.1 percent in the fourth round. The study findings indicate that various factors



are responsible for the drop in the HIV prevalence rate since the first round. It is important to note that the sample composition may be one of the contributing factors.

From the other findings of the study, it is evident that the IDUs in the Eastern Terai have been increasingly conscious of HIV/AIDS risk factors. Their behavioral trend also points towards a considerable improvement with regards to injecting and sexual behavior.

In the week preceding the survey, 66.4 percent of IDUs had avoided injecting with a previously-used needle in the first round, this figure reached to 85.5 percent in fourth round. Likewise, the proportion of respondents who had injected with a syringe that had been kept in a public place decreased from 24 percent in 2003 to about 11 percent in 2009. In the same way, 50 percent of respondents had not shared a syringe with anyone in the past week in 2003, while 83 percent of IDUs reported doing so in 2009 (Table 9.5).

It is further evident from the study findings that a considerable proportion of IDUs have been practicing safe sex with their sex partners, especially with female sex workers. While in 2003, 41.4 percent had used condoms consistently when having sex with female sex workers in the year preceding the survey, 44.5 percent reported doing so in 2009.

Table 9.5: District wise HIV Prevalence among IDUs

| | First r | round (20 | 003) | Second | Second round (2005) | | | Third round (2007) | | | Fourth round (2009) | | |
|--------------------------|--------------|-----------|------|--------------|---------------------|------|--------------|--------------------|------|--------------|---------------------|------|--|
| District | Total sample | HIV+ | % | Total sample | HIV + | % | Total sample | HIV + | % | Total sample | HIV + | % | |
| Interviewed Districts | | | | | | | | | | | | | |
| Morang | 135 | 70 | 51.8 | 135 | 56 | 41.5 | 135 | 29 | 21.5 | 135 | 17 | 12.6 | |
| Sunsari | 135 | 45 | 33.3 | 135 | 45 | 33.3 | 135 | 20 | 14.8 | 135 | 7 | 5.2 | |
| Jhapa | 75 | 6 | 8.0 | 75 | 8 | 10.7 | 75 | 10 | 13.3 | 75 | 4 | 5.3 | |
| Total | 345 | 121 | 35.1 | 345 | 109 | 31.6 | 345 | 59 | 17.1 | 345 | 28 | 8.1 | |

In Morang, the prevalence rate dropped significantly from 51.8 percent in 2003, 41.5 percent in 2005 and 21.5 percent in 2007, to 12.6 percent in 2009. Similarly, in Sunsari, the HIV infection rate has decreased significantly from 33.3 percent in 2003 and 2005, to 14.8 percent in 2007, and now to 5.2 in 2009.

The HIV infection rate was, however, lower (5.3%) in Jhapa in 2009 compared to the third round (13.3% in 2007), the second rounds (10.7% in 2005) and the first round (8% in 2003); although the difference is not statistically significant.

Despite the changes in the prevalence rate in the study districts, data shows that the rate of infection is still the highest among IDUs in Morang district (12.6%), compared with Sunsari (5.2%) and Jhapa districts (5.3%).

CHAPTER - 10: SUMMARY OF MAJOR FINDINGS AND RECOMMENDATIONS

10.1 Summary of Major Findings

- Overall, 8.1 percent of IDUs tested HIV positive. A history of syphilis was found among 1.7 percent of IDUs, while 1.7 percent of the study participants currently had high-titre syphilis.
- The prevalence of HIV was significantly higher (p<0.05) among those IDUs aged 20 years and above who were married and who had been injecting drugs for more than five years.
- The IDUs consisted predominantly of a young population with 80 percent being below the age of 30 years.
- One third of IDUs had been injecting drugs for more than five years.
- The past week's injecting practice indicated that 17 percent of respondents had shared their needles/syringes with others at least once, 14.5 percent respondents had injected with others' used needles/syringes, and 10.7 percent had used a needle/syringe kept in a public place.
- About 92 percent of IDUs have had sexual contact before. Among them 71.5 percent had been sexually active in the past year.
- A total of 44.5 percent of IDUs used condoms consistently with sex workers, 23.7 percent with non-regular partners and 5.6 percent with regular sex partners. The pattern of consistent condom use has decreased with all sex partners compared to 2007.
- Very few IDUs (3.5%) had not heard of STIs before.
- Thirteen percent of IDUs had ever had at least one STI symptom. Among them, 51.1 percent had not sought any treatment.
- In total, 95.4 percent of IDUs were aware of all three main prevention measures, namely, (A) abstinence from sex, (B) being faithful to one sex partner and (C) and regular condom use.
- Around 96 percent of IDUs knew that a confidential HIV testing facility was available in their community.. However only 38 percent of them had never taken up HIV testing before.
- Overall, 90.7 percent of IDUs had met PEs/OEs, 87.5 percent had visited a DIC and 33.6 percent had visited a VCT center at least once in the past year. However, very few (6.1%) had visited an STI clinic.

• About 86 percent of respondents had participated in an HIV/AIDS awareness program or similar community event before the survey.

10.2 Recommendations

Based on the findings of this study, a few specific recommendations have been made. They are as follows:

- Data from the study indicate that basically youths and adolescents become
 intravenous drug user (51% of respondents were below 25 years of age, while
 55.9% had their first injection at the age of less than 21 years). Specific
 program activities that target school children, college students, youths, and
 adolescents should be designed to impart HIV/AIDS awareness and sex
 education
- The past week's injecting practices showed that around 14 percent of IDUs had injected with a used needle/syringe, almost 11 percent had injected with a needle/syringe left in a public place and 17 percent had shared their needles/syringes with two or more partners. Advocacy, behavioral change activities and health promotion interventions should be further scaled up to cover more IDUs. Harm reduction initiatives such as wider dissemination of information on safe injecting behavior and needle exchange programs should also be continued and expanded further.
- Consistent use of condoms was reported by only 5.6 percent of IDUs with regular partners, 23.7 percent with non-regular partners and 44.5 percent with commercial sex workers in the past year. Barriers to inconsistent condom use should be explored, and intervention targeting not just IDUs but also female sex workers and the general population should be stressed.
- Around 61 percent of IDUs had never been to a de-addiction treatment center.
 PEs/OEs and DICs should put more emphasis on treatment alternatives.
 Rehabilitation and detoxification centers should be further extended and also supported to allow them to provide IDUs with the necessary services, especially to IDUs belonging to economically deprived families.
 Rehabilitation programs should also incorporate family counseling services to make them more effective.
- Around 51 percent of those IDUs who had ever experienced any STI symptoms had never sought any treatment. At the same time, around 38 percent of IDUs had never taken up HIV testing. HIV/AIDS awareness campaigns should also focus on STI education. Client-friendly HIV/STI testing facilities should be made available to encourage more IDUs to come forward voluntarily for such services.

- PE/OEs are good contact points to disseminate necessary information and IEC materials to the target population. Around 91 percent of respondents had met them at least once in the past year. One-to-one education for behavioral change and safe injecting and sexual practices through wider mobilization of PEs/OEs could yield positive results.
- Monitoring and evaluation of HIV prevalence and risk behaviors of IDUs to design and implement timely intervention strategies are needed at regular time intervals.

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ANNEXES

ANNEX – 1: Indicators for Monitoring and Evaluation of HIV

| Prevention 1: HIV related risk and transmission among IDUs | Results (%) | Indicator |
|--|-------------|------------------------------|
| Impact/Outcome indicators | | |
| Percentage of IDUs who are HIV infected | 8.1 | PMP/ASHA/ National/UNGASS |
| Percentage of IDUs who had adopted behavior that reduce transmission of HIV i.e. who both avoided using non sterile injecting equipment and used condom in the last sex in last month | 17.2 | National |
| Percentage of IDUs reporting the use of sterile injecting equipment in the last time they injected | 92.8 | UNGASS |
| Percentage of IDUs who avoided sharing injecting equipment in the last month | 49.6 | ASHA |
| Percentage of IDUs who used condom at last sex with female sex worker in the last 12 months | 73.3 | PMP/ASHA |
| Percentage of IDUs who say they consistently use a condom when they have sex with a female sex worker in the last 12 months | 44.5 | PMP/ASHA |
| Percentage of IDUs who both correctly identify ways of preventing the sexual transmission of HIV and who reject major misconceptions | | PMP/ASHA/National/UNGASS |
| about HIV transmission Output/Coverage Indicators | 63.2 | |
| Percentage of IDUs reached with targeted HIV | | |
| prevention service programs (BCC with OE/PE or DIC or STI Clinics or VCT or community events / trainings or drug treatment or | | ASHA/National |
| rehabilitation) | 97.1 | |
| Percentage of IDUs reached with HIV prevention programs (Knows where to receive HIV test and received condoms) | 64.9 | UNGASS |
| Percentage of IDUs who received an HIV test in the last 12 months and who know their results | 33.3 | UNGASS |

ANNEX – 2: Formula for Calculating Sample Size*

$$n = D \frac{\left[Z_{1-\alpha}\sqrt{2\overline{p}(1-\overline{P})} + Z_{1-\beta}\sqrt{P_{1}(1-P_{1})} + P_{z}(1-P_{z})\right]^{2}}{(P_{2}-P_{1})^{2}}$$

n = required minimum sample size per survey round

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

 $P_1 =$ the estimated proportion at the time of the first survey.

 P_2 = the target population at some future date, so that (P_2-P_1) is the magnitude of change of change you want to be able to detect.

$$\overline{P} = (P_1 + P_2)/2$$

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

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

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

ANNEX – 3: Questionnaire

Government of Nepal Ministry of Health and Population (MoHP) National Center for AIDS and STD Control (NCASC) - 2009

Integrated Biological and Behavioral Surveillance Survey (IBBS) among Male Injecting Drug Users (IDUs) in Kathmandu Valley, Pokhara Valley, Eastern Terai and West-Far Western Terai of Nepal

| Namaste! My name is |
|---|
| It depends on your wish to participate in this survey or not. You do not have to answer those questions that you do not want to answer, and you may end this interview at any time you want to. But I hope you will participate in this survey and make it a success by providing correct answers to all the questions. |
| Would you be willing to participate? |
| 1. Yes 2. No |
| Signature of the interviewer: Date:/2065 |
| Operational definition of respondent: |

Male Injecting Drug User (IDU): Male injectors who inject different types of drugs in their nerves for intoxication. Please bear in mind that those people who inject for medical purpose should not be treated as IDUs. Respondents should be a current injector and should have been injecting drugs for at least three months prior to the date of survey. Those who have been injecting drugs for a period of less than three months should not be included in the survey.

Male IDUs under the age of 16 will be excluded

| waie 1DUs under the age of 10 will be excluded. | | | |
|---|--|--|--|
| | Code Respondents: (Kathmandu and Pokhara Sites only) | | |
| Seed: 1. Yes | 2. No | | |
| | | | |

| IDENTIFICATION NUMBER (Coupon Number): (Write '0' for seed) Coupon number given: (For only Pokhara and Kathmandu sites) |
|--|
| |
| |
| |
| |
| Did the interviewee abandon the interview? 1. Yes (Precise the number of the last question completed: Q) 2. No |
| Interviewer Name: Code Interviewer: |
| Date Interview: / 2065 Checked by the supervisor: Signature: Date: / 2065 |
| Data Entry # 1: Clerk's name: / |
| 001. Has someone interviewed you from New ERA with a questionnaire in last few weeks? |
| 1. Yes 2. No (continue interview) When? Days ago (make sure that it was interviewed by New ERA and close |
| the interview) |
| 002. Respondent's ID #: |
| 002.1 Respondent referred by coupon no. (Only for Kathmandu and Pokhara IBBS study) |
| 002.2 In which part of the body respondent usually inject? (Confirm by observation) |
| 002.3 Did you share needle/syringe with the friend who brought you here? (Don't ask with seed, only for Kathmandu and Pokhara IBBS study) 1. Yes 2. No |
| 002.4 How long you have been injecting drugs? |
| Years Months Months Months THIS IS A SCREENING QUESTION. IF THE RESPONSE IS LESS THAN THREE MONTHS STOP INTERVIEW BECAUSE THIS PERSON IS NOT ELIGIBLE FOR INCLUSION IN THE SAMPLE) |

| 003. | Interview Location |
|-------|-------------------------------|
| | (to be filled by interviewer) |
| 003.1 | Name of location |
| 003.2 | Ward No. |
| 003.3 | VDC/Municipality: |
| 003.4 | District: |

1.0 BACKGROUND OF RESPONDENT

| Q.N. | Questions | Coding Categories | Skip |
|---------------------|--|--|--------------|
| 101 | Where are you living now? | | |
| | | Ward | |
| | (Write current place of residence: Ward | VDC/Municipality | |
| | No. Tole, Lane etc.) | District | |
| 101.1 | How long have you been living | | |
| | continuously at this location? | Month | |
| | | Always (since birth)0 | |
| 100 | 7 1 1 10 | Others (Specify)96 | |
| 102 | In the last 12 months have you been away | Yes | |
| | from your home for more than one-month altogether? | Don't' know 98 | |
| | (Left home, village/district) | No response | |
| 103 | How old are you? | 140 Tesponse | |
| 103 | The word are you. | Age | |
| | | (write the completed years) | |
| 104 | What is your educational status? | Illiterate0 | |
| | | Literate19 | |
| | | Grade | |
| | | (write the completed grade) | |
| 105 | What is your caste? | Ethnicity/Caste | |
| 100 | (Specify Ethnic Group/Caste) | | |
| 10.1 | | Code No. | |
| 106 | What is your current marital status? | Never married1— | ▶ 108 |
| | | Married | |
| | | Divorced/Permanently separated 3 Widow | |
| | | Other (Specify)96 | |
| 107 | How old were you when you first got | Other (Speerry) | |
| 10, | married? | Age | |
| | | (write the completed years) | |
| 108 | With whom you are living now? | Living with wife1 | |
| | | Living with female sexual partner 2 | h l |
| | | Living without sexual partner3 | — 110 |
| | | Others (Specify)96 | |
| 100 | | No response 99— | <u> </u> |
| 109 | | _ | <u> </u> |
| | partner has any other sexual partners? | | _ 110 |
| | | | IJ i |
| 109 1 | If yes, what is the sex of your partner? | • | |
| 107.1 | 11 yes, what is the sex of your partner: | | |
| 110 | During the past one-month how often have | | |
| | you had drinks containing alcohol? | More than once a week | |
| | [| Less than once a week 3 | |
| | (Such as beer, local beer etc.) | Never drink4 | |
| | | Others (Specify) 96 | |
| 109 109.1 110 | | Less than once a week | - 11 |

| Q.N. | Questions | Coding Categories | Skip |
|------|-----------|-------------------|------|
| | | No response | |

2.0 DRUG USE

| Q.N. | | | | Coding Categories | | | | | Skip |
|-------|---|--------|--------|-------------------|----------------|-----------|---------|----------|--------------|
| 201 | How long have you been using drugs' | ? | Yea | ars | | | 🔲 | | |
| | (Drug means medicine not used for | | Mo | Months | | | | | |
| | treatment purpose rather used for | | | | | | | 99 | |
| | Intoxication) | | 140 | response | · | •••••• | ••••• | | |
| | , | | | | | | | | |
| 202 | How old were you when you first inje | ected | | | | | | | |
| | drugs? | | Yea | ars | | | | | |
| | (Include self-injection or injection b | Эy | | (write | <i>tne com</i> | pleted y | ears) | | |
| | another) | | | | | | | | |
| 203 | How long have you been injecting dru | ugs? | Yea | ars | | | | | |
| | (Include self injection or injection b | 387 | | | | | | | |
| | (Include self-injection or injection to others) | у | _ | nths | | | | | |
| | others) | | No | response | e | ••••• | •••••• | 99 | |
| 203.1 | Have you injected drugs in the last me | onth? | Yes | S | | | | 1 | |
| | | | | | | | | | → 204 |
| 203.2 | If Yes, have you used non-sterile | | | | | | | | |
| | syringe/needle at any time in the last | month? | | | | | | | |
| 203.3 | Have you used non-sterile injecting | | | | | | | | |
| | equipment at any time in the last mon | ith? | No | | | ••••• | | 2 | |
| 204 | Which of the following types of drugs | | ou use | d and/o | r injecte | ed in the | past o | ne-wee | k? |
| | (Read the list, multiple answer possible) | | | | | | | | |
| | | | | ast-We | | | cted in | | |
| | Description | YES | NO | DK | NR | YES | NO | DK | NR |
| | 1. Tidigesic | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 2. Brown Sugar | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 3. Nitrosun | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 4. Ganja | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 5. Chares | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 6. White Sugar | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 7. Phensydyl | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 8. Calmpose 9. Diazepam | 1 | 2 | 98 98 | 99 99 | 1 | 2 | 98 98 | 99 |
| | 10. Codeine | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 11. Phenergan | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 12. Cocaine | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 13. Proxygin | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 14. Effidin | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 15. Velium 10 | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 16. Lysergic Acid | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | Dithylamide(LSD) | | | , , | | | | , , | |
| | 17. Nitrovate | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 18. Combination (Specify) | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| | 96. Others (Specify) | 1 | 2 | 98 | 99 | 1 | 2 | 98 | 99 |
| 204.1 | In the last month, did you switch from | n one | | | | | | | |
| | drug to another? | | No | | | | | 2──▶ | 205 |
| | _ | | | | | | | | |
| 204.1 | If yes, which drug? | | Fre | m | | | ug | | |
| 204.1 | _ | | | om | | dr dr | | | |
| | _ | | | | | | | | |

| Q.N. | Questions | Coding Categories | Skip |
|-------|---|--------------------------------|-----------------|
| 204.1 | What is the reason for switching? | | |
| .2 | | | |
| | | | |
| 205 | How many times would you say you injected | | > 200 |
| | drugs yesterday? | Times | → 209 |
| | | Not injected0 | |
| 206 | Would you like to tell me why you did not | | |
| | injected yesterday? | | |
| | | | |
| 207 | How many days ago did you get injected? | | |
| | | Days ago | |
| 208 | How many times would you say you injected | l | |
| | drugs on the last day? | Times | |
| 209 | During the past one-week how often would | Once a week1 | |
| | you say you injected drugs? | 2-3 times a week | |
| | | 4-6 times a week | |
| | | Once a day4 | |
| | | 2-3 times a day5 | |
| | | 4 or more times a day6 | |
| | | Not injected in the last week7 | |
| | | Don't know98 | |
| | | No response99 | |

3.0 NEEDLE SHARING BEHAVIORS

| Q.N. | Questions | Coding Categories | Skip |
|-------|---|---|------|
| 301 | Think about the times, you have injected drugs yesterday/last day. How many times did you inject drugs on that day? (Fill the number from answer to Q. 205 or 208 and verify by asking the respondent) | Times | |
| 302 | The lat time you injected, how did you get that syringe/needle? | My friend/relative gave it to me after his use | |
| | (Public place means places other than the IDU's home that are used to hide syringe/needle) | Unknown person gave it to me after he use | |
| | syringe/needie/ | I picked it up from a public place which was left there by myself*** 4 I used a new needle/syringe given by | |
| | | NGO staff/volunteer5 (write the name of | |
| | | Organization) I used a needle/syringe which I purchased | |
| | | I reused my own needle/syringe 7 My friend gave new needle/syringe8 | |
| | | Others (Specify) 96 Don't know | |
| 302.1 | If you were in a group the last time that you injected, how many different people in the group do you think used the same needle? | Nos. 99 Nos. 95 Injected alone 95 | |

| Q.N. Questions Coding Categories Think about the time before the last time you injected, how did you get that syringe/needle? My friend/relative gave it to me after his use | Skip |
|--|--------------|
| injected, how did you get that syringe/needle? his use | |
| after he use2 I picked it up from a public place | |
| 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 | |
| (Public place means places other than the IDU's I used a new needle/syringe given by | |
| home that are used to hide syringe/needle) NGO staff/ volunteer5 (write the name of | |
| Organization) | |
| I used a needle/syringe which I | |
| purchased6 | |
| I reused my own needle/syringe7 | |
| My friend gave new | |
| needle/syringe8 | |
| Others (Specify)96 | |
| Don't know98 | |
| No response | |
| 303.1 That time, If you were in a group, how many | |
| different people in the group do you Nos | |
| Think had used the same needle? Injected alone95 | |
| Now think about the time before (before Q. My friend/relative gave it to me | |
| 303), how did you get that syringe/ needle? after his use | |
| Unknown person gave it to me | |
| after he use2 | |
| 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 | |
| (Public place means places other than the IDU's NGO staff/ volunteer5 | |
| home that are used to hide syringe/needle) (write the name of | |
| Organization) | |
| I used a needle/syringe which I | |
| purchased6 | |
| I reused my own needle/syringe7 | |
| My friend gave new | |
| needle/syringe8 | |
| Others (Specify)96 | |
| Don't know98 | |
| No response | |
| That time If you were in a group, how many different people in the group do you think had Nos. | |
| used the same needle? | |
| 305 Think about the times, you have injected Every times | |
| drugs during the past one-week. How often Almost every-times | |
| was it with a needle or syringe that had Sometimes | |
| previously been used by someone else? Never used | |
| Not injected in the last week 5- | → 314 |
| Don't know | |
| No response | |

| Q.N. | Questions | | Skip | | | |
|-------|--|--|---------------|--------|----|---|
| 305.1 | When you injected drug during the past week, | Coding Categories Every times | | | | |
| | how often did you use a syringe/needle that | Almost every-times 2 | | | | |
| | had been left in public place? | Sometimes | | | 3 | |
| | (Public place means places other than the | Never4 | | | 4 | |
| | IDU's home that are used to hide | Don't kn | ow | | 98 | |
| | syringe/needle) | No respo | onse | | 99 | |
| 306 | In the past one-week, did you ever share | | | | | |
| | needles and syringes with any of the | | | | | |
| | following? | | | | | |
| | Read out list. Multiple answers possible | Yes | No | DK | NR | |
| | Your usual sexual partner | 1 | 2 | 98 | 99 | |
| | 2. A sexual partner who you did not know | 1 | 2 | 98 | 99 | |
| | 3. A friend | 1 | 2 | 98 | 99 | |
| | 4. A drugs seller | 1 | 2 | 98 | 99 | |
| | 5. Unknown Person | 1 | 2 | 98 | 99 | |
| | 96. Other (Specify) | 1 | 2 | 98 | 99 | |
| 307 | | <u> </u> | | | | |
| 307 | With how many different injecting partners did you share needles or syringes in the past | Number | of partne | rs | | |
| | | | | | | |
| | one-week? (Count everyone who injected | No | | •••••• | | |
| | from the same syringe) | | e | | 99 | |
| 308 | In the past one-week, how often did you give | Every tir | nes | | 1 | |
| 300 | a needle or syringe to someone else, after you | | | | | |
| | had already used it? | Almost every-times 2 Sometimes 3 Never 4 | | | | |
| | | | | | | |
| | | | Don't know 98 | | | |
| | | | | | | |
| 309 | In the past-week, did you ever inject with a | No response 99 Yes 1 | | | | |
| | pre-filled syringe? | | | | | |
| | (By that I mean a syringe that was filled | Don't' k | now | | 98 | |
| | without you witnessing it) | No respo | onse | | 99 | |
| 310 | In the past one-week, how often did you inject | | | | | |
| | drugs using a syringe after someone else had | - | | es | | |
| | squirted drugs into it from his/her used | | • | | | |
| | syringe? | Never4 | | | 4 | |
| | | Don't know | | | | |
| | (front-loading/back-loading/splitting) | No respo | onse | | 99 | |
| 311 | In the past one-week, when you injected | Every tin | mes | | 1 | |
| | drugs, how often did you share a cooker/ | Almost | every-time | es | 2 | |
| | vial/container, cotton/filter, or rise water? | Sometim | nes | | 3 | |
| | | | | | | |
| | | Don't kn | ow | | 98 | |
| | | | | | | |
| 312 | In the past one-week, how often you draw up | Every tin | mes | | 1 | · |
| | your drug solution from a common container | | | es | | |
| | used by others? | | | | | |
| | | | | | | |
| | | | | | | |
| | | No respo | onse | | 99 | |

| Q.N. | Questions | Coding Categories | Skip |
|-------|---|--|--|
| 313 | In the past one-week, when you injected with | Every time1 | |
| | needles or syringes that had previously been | Almost every-times 2 | |
| | used, how often did you clean them first? | Sometimes3 | |
| | | Never4 | \vdash |
| | | Never reused 5 | 314 |
| | | Others (Specify)96 | |
| | | Don't know98 | \sqcup |
| 212.1 | 70 1 11 11 1 1 1 1 | No response | |
| 313.1 | If cleaned, how did you usually clean them? | With water 1 | |
| | | With urine 2 With saliva 3 | |
| | | Boil the syringe in water 4 | |
| | | With bleach5 | |
| | | Burning the needle with | |
| | | matchstick6 | |
| | | Others (Specify)96 | |
| | | Don't know98 | |
| | | No response99 | |
| 314 | Can you obtain new, unused needles and | Yes 1 | |
| | syringes when you need them? | No2— | ┧ ┃ |
| | | Don't' know 98 | 316 |
| | | No response | |
| 315 | Where can you obtain new unused needles | Drugstore 1 | |
| | and syringes? | Other shop2 | |
| | | Health worker | |
| | | Hospital4 | |
| | | Drug wholesaler/drug agency 5 | |
| | | Family/relatives 6 Sexual partner 7 | |
| | | Friends | |
| | (Do not read out list. Multiple answers | Other drugs users | |
| | possible. Probe only with "Anywhere | Drugs seller | |
| | Else?") | Needle exchange program of11 | |
| | | Steal from legitimate source | |
| | | (hospital./pharmacy)12 | |
| | | Buy on streets | |
| | | Other (Specify)96 | |
| 316 | In the past one-year, did you ever inject drug | Yes 1 | |
| | in another city/district (or another country)? | No2— | h l |
| | | Don't' remember98 | 316.4 |
| | | No response | J |
| 316.1 | If yes, in which other cities/districts did you | Cities | |
| | inject, including cities in other countries? | Districts | |
| | | Country | |
| 316.2 | Think about the times you injected drugs in | Every times | |
| | another city/district (including abroad) how | Almost every-times 2 | |
| | often was it with a syringe/needle that had | Sometimes | |
| | previously been used by someone else? | Never 4 | |
| | | Don't know | |
| 216.2 | When you injected days in another site. 1 | No response 99 | |
| 316.3 | When you injected drugs in another city, how | Every times | |
| | often did you give a syringe/needle to some one else? | Almost every-times | |
| | to some one erse! | Never | |
| | | Don't know | |
| | | | |
| | | No response | <u>. </u> |

| Q.N. | Questions | Coding Categories | Skip |
|-------|--|---------------------------------|-------------------------|
| 316.4 | In the last 12 months, have any of an outreach | Yes 1 | |
| | worker, a peer educator or a staff from a | No2 | |
| | needle exchange program given you a new | Don't' remember | |
| | needle/syringe? | No response99 | |
| 317 | Are you currently under treatment (or | Currently under treatment1 | |
| | receiving help) or have you ever received | Was in treatment but not now 2 | 401 |
| | treatment (or help) because of your drug use? | Have never received treatment3— | → ⁴⁰¹ |
| | | No response | |
| 318 | How many months ago did you last receive | Months | |
| | treatment or help for your drug use? | Don't know98 | |
| | | No response99 | |
| 210 | | 1 | |
| 319 | What kind of treatment or help you received? | | |
| | (Do not read out the responses, probe | | |
| | asking, "Are there any other kinds of treatment that you've received?" Multiple | | |
| | Answers Possi | | |
| | Types of Treatments | Name of Institutions | |
| | 1. Outpatient counseling | Traine of Histitutions | |
| | 2. Self-help groups | | |
| | 3. Detoxification w/methadone | | |
| | 4. Maintenance w/methadone | | |
| | 5. Detoxification w/other drugs | | |
| | 6. Detoxification with no drug | | |
| | 7. Residential rehabilitation | | |
| | 8. Helped for <i>cold turkey</i> without medicine | | |
| | 9. Forced for <i>cold turkey</i> by others without | | |
| | treatment | | |
| | 96. Other (Specify) | | |
| | 99. No response | | |

4.0 SEXUAL HISTORY

| Q.N. | Questions | Coding Categories Skip |
|-------|---|------------------------|
| 401 | How old were you at your first sexual intercourse? | Years old |
| | | No response |
| 402 | Have you had sexual intercourse in the last 12 months? | Yes |
| 403 | In total, how many different female sexual partners have you had sex in the last 12 months? | Total Number |
| 403.1 | How many were female "regular partners"? | Number |
| | (Your wife or live-in sexual partners) | Don't know |
| 403.2 | How many were female "sex worker"? | Number |
| | (Partners to whom you bought or sold sex in exchange for money or drug) | Don't know |

| Q.N. | Questions | Coding Categories | Skip |
|-------|--|--|--------------|
| 403.3 | How many were female "non-regular | | |
| | partners"? | Number | |
| | (Sexual partners, you are not married to | Don't know | |
| | and have never lived with and did not have | No response99 | |
| | sex in exchange for money) | <u></u> | |
| 404 | We have just talked about your female sexual | Yes 1_ | L |
| | partners? Have you ever had any male sexual | No 2 | ├ 501 |
| | partners also? | No response | ا ا |
| 404.1 | If yes, have you had anal sex with any of your | Yes 1 | |
| | male partners in the last 12 months? | No 2— | 5 01 |
| | | No response99 | T |
| 404.2 | With how many different male partners have | Manulan | |
| | you had anal sex in the last 12 months? | Number | |
| | | Don't know | |
| 404.3 | The last time you had anal sex with a male | No response 99 Yes 1 | |
| 404.3 | sex partner did you and your partner use a | No | |
| | condom? | Don't Know | |
| | condom. | No response | |
| 404.4 | How often have you used a condom in an anal | Every Times 1 | |
| | sex with male sex partner in the past 12 | Almost Every Times | |
| | months | Some Times | |
| | | Never Used4 | |
| | | Don't Know98 | |
| | | No response99 | |

5.0 NUMBERS AND TYPES OF PARTNERS

(Check Q. 403.1 and circle the response of Q.501)

| Q. N. | Questions | Coding Categories | Skip |
|-------|--|---|----------------|
| 501. | Did you have sex with female regular partner (wife or live-in partner) during last 12 months? | Yes | → 502 |
| 501.1 | Think about your most recent female regular sexual partner. How many times did you have sex with her during last onemonth? | Times | |
| 501.2 | The last time you had sex with a female regular partner did you and your partner use a condom? | Yes .1- No .2 Don't know .98- No response .99- | → 501.4 |
| 501.3 | Why did not you or your partner use a condom that time? | Not available | |
| | (Do not read the possible answers, multiple answer possible) | Don't like them | |
| 501.4 | How often have you used a condom with female regular partners in the past year? | Every times 1 Almost every-times 2 Sometimes 3 Never used 4 Don't know 98 | |

| Q. N. | Questions | Coding Categories | Skip |
|---------|--|--------------------------------|----------------|
| | | No response99 | |
| | | 1 | |
| | | | |
| 501.5 | Did your female regular partner also inject | Yes1 | |
| | drugs? | No2 | |
| | | Don't know98 | |
| | | No response99 | |
| 501.6 | Have you ever had anal sex with your | Yes1 | |
| | female regular partners? | No2— | ├ |
| | | Don't know98 | 502 |
| | | No response | |
| 501.7 | The last time you had anal-sex with a | Yes1 | |
| | female regular partner did you and your | No2 | |
| | partner use a condom? | Don't know98 | |
| | | No response99 | |
| 501.8 | How often have you used a condom in an | Every times1 | |
| | anal-sex with female regular partners in the | Almost every-times2 | |
| | past 12 months? | Sometimes3 | |
| | | Never used | |
| | | Don't know | |
| 502 | Did you have a sayyal intercourse with a | No response | |
| 502 | Did you have a sexual intercourse with a | Yes1 | 502 |
| | female sex worker in last 12 months? | No2— | → 503 |
| | (Check 403.2 and circle the response of Q. 502) | | |
| | Think about the female sex workers that | | |
| | you have had sex in the past one-month. | No | |
| 502.1 | In total how many female sex workers you | Don't know98 | |
| | sold sex in exchange for money or drugs? | No response99 | |
| 502.1.1 | | | |
| | last month by paying them money or drugs? | No | |
| | | Don't know98 | |
| | | No response 99 | |
| 502.2 | Think about your most recent female sex | Times | |
| | worker. How many times did you have | Don't know98 | |
| | sexual intercourse with her in the past one- | No response | |
| 502.3 | month? The last time you had sex with a female sex | Yes1— | → 502.5 |
| 302.3 | worker did you and your partner use a | No | → 302.3 |
| | condom? | Don't know98 | ┧ |
| | condom: | No response99_ | 5 02.5 |
| 502.4 | Why did not you and your partner use a | Not available | |
| 302.7 | condom that time? | Too expensive | |
| | condoni that time. | Partner objected3 | |
| | | Don't like them4 | |
| | | Used other contraceptive5 | |
| | (Do not read the possible answers, | Didn't think it was necessary6 | |
| | multiple answer possible) | Didn't think of it7 | |
| | • | Other (Specify)96 | |
| | | Don't know98 | |
| | | No response99 | |

| Q. N. | Questions | Coding Categories | Skip |
|-------|--|---------------------------------|--------------|
| 502.5 | How often have you used a condom with | Every times 1 | |
| | female sex workers in the past year? | Almost every-times 2 | |
| | | Sometimes 3 | |
| | | Never used 4 | |
| | | Don't know | |
| | | No response | |
| 502.6 | Do you know whether female sex worker | Yes 1 | |
| | with whom you had sex also injected | No2 | |
| | drugs? | Don't know | |
| | | No response 99 | |
| 502.7 | Have you ever had anal sex with your | Yes1_ | |
| | female sex workers? | No2 | |
| | | Don't know98 | ≻ 503 |
| | | No response | J |
| 502.8 | The last time you had anal-sex with a | Yes 1 | |
| | female sex worker did you use a condom? | No2 | |
| | | Don't know | |
| | | No response99 | |
| 502.9 | How often have you used a condom in an | Every times 1 | |
| | anal sex with female sex workers in the | Almost every-times 2 | |
| | past 12 months? | Sometimes 3 | |
| | | Never used 4 | |
| | | Don't know | |
| | | No response | |
| 503 | Did you have a sexual intercourse with a | Yes 1 | |
| | female non-regular sex partner during last | No2 - | → 504 |
| | 12 months? | | |
| | (Check 403.3 and circle the response of | | |
| | Q. 503) | | |
| 503.1 | Think about your most recent female non- | Times | |
| | regular sexual partner. How many times | Don't know | |
| | did you have sexual intercourse with her | No response | |
| | over the past one-month? | 140 Tesponse | |
| 503.2 | The last time you had sex with a female | Yes 1— | → 503.4 |
| | non-regular partner did you and your | No2 | |
| | partner use a condom? | Don't know | 503.4 |
| | | No response | 505.4 |
| 503.3 | Why did not you and your partner use a | Not available1 | |
| | condom that time? | Too expensive | |
| | | Partner objected | |
| | | Don't like them 4 | |
| | | Used other contraceptive 5 | |
| | (Don't read the possible answers, | Didn't think it was necessary 6 | |
| | multiple answer possible) | Didn't think of it7 | |
| | | Other (Specify) 96 | |
| | | Don't know98 | |
| | | No response | |
| 503.4 | How often have you used a condom with a | Every times 1 | |
| | female non-regular partner in the past year? | Almost every-time | |
| | | Sometimes 3 | |
| | | Never used 4 | |
| | | Don't know 98 | |
| | | No response99 | |

| Q. N. | Questions | Coding Categories | Skip |
|-------|---|--------------------------------|-----------------|
| 503.5 | Did you know whether your female non- | Yes1 | |
| | regular partners also injected drugs? | No2 | |
| | | Don't know98 | |
| | | No response99 | |
| 503.6 | Have you ever had anal sex with your | Yes1 | |
| | female non-regular partners? | No2- | h |
| | | Don't know98 | 504 |
| | | No response99_ | \sqcup |
| 503.7 | The last time you had anal sex with a | Yes1 | |
| | female non-regular partner, did you and | No2 | |
| | your partner use a condom? | Don't know98 | |
| | | No response99 | |
| 503.8 | How often have you used a condom in an | Every times1 | |
| | anal-sex with female non-regular partners | Almost every-times2 | |
| | in the past year? | Sometimes3 | |
| | | Never used4 | |
| | | Don't know98 | |
| | | No response99 | |
| 504 | Have you had anal sex with a male partner | Yes1 | |
| | in the past one year? | No2 | → 505 |
| | (See the response in Q. 404.1 and circle | | |
| | Q. 504 response) | | |
| 504.1 | Think of your last male sex partner with | Ti. | |
| | whom you had anal sex: in the last one | Times | |
| | month, how many times you had anal sex | Don't know98 | |
| | with him? | No response99 | |
| 504.2 | The last time you had anal sex with him; | Yes1- | → 504.4 |
| | did you use condom? | No2 | |
| | | Don't know98 | |
| | | No response99 | 504.4 |
| | | | 304.4 |
| 504.3 | Why didn't you use condom at that time? | Not available1 | |
| | | Too expensive2 | |
| | | Partner objected3 | |
| | (Don't read possible answer, multiple | Don't like4 | |
| | answer possible) | Used other contraceptive5 | |
| | 1 | Didn't think it was necessary6 | |
| | | Didn't think of it7 | |
| | | Other (Specify)96 | |
| | | Don't know98 | |
| | | No response99 | |
| 504.4 | How often have you used a condom during | Every times1 | |
| | anal sex with a male partner is the past | Almost every-times2 | |
| | year? | Sometimes3 | |
| | - | Never used4 | |
| | | Don't know98 | |
| | | No response99 | |
| 504.5 | Do you know if your male partner with | Yes1 | |
| | whom you had anal sex also injected | No2 | |
| | drugs? | Don't know98 | |
| | | No response99 | |
| 505 | Have you had sexual intercourse in the last | Yes1 | |
| | month? | No2 | h l |
| | | Don't know98 | -507 |
| | | No - | \vdash |
| | | response99 | |
| | 63 | IRRS-IDI/s-Fastern Te | |

| Q. N. | Questions | Coding Categories | Skip |
|-------|--|------------------------------------|------|
| 505.1 | If yes, did you or your partner use a | Yes1 | |
| | condom when you had last sex in the last | No2 | |
| | month? | Don't know98 | |
| | | No response99 | |
| 506 | In the last month, how often did you or | Every times1 | |
| | your partner use a condom when you had | Almost every-times2 | |
| | sex? | Sometimes3 | |
| | | Never used4 | |
| | | Don't know98 | |
| | | No response | |
| 507 | With whom did you have the last sexual | FSW1 | |
| | intercourse? | Regular partner2 | |
| | | (Wife or live in sexual partner) | |
| | | Other female friend3 | |
| | | Male friend4 | |
| | | Did not have sexual contact in the | |
| | | past year5 | 601 |
| | | Don't Know98 | |
| | | No response99 | |
| 508 | Did you use condom in the last sexual | Yes1 | |
| | intercourse | No2 | |

6.0 USE AND AVAILABILITY OF CONDOM

(Check responses in Q.N. 404.3, 404.4, 501.2, 501.4, 501.7, 501.8, 502.3, 502.5, 502.8, 502.9, 503.2, 503.4, 503.7, 503.8, 504.4, 505.1, 506, 508 and circle responses in Q. 601 & 602)

| Q. N. | Questions | Coding Categories | Skip |
|-------|---|--------------------------------|--------|
| 601 | Have you ever heard of a condom? | Yes1 | |
| | | No2_ | |
| | (Show picture or sample of condom) | Don't know98 | 701 |
| | | No response99 _ | |
| 602 | Have you ever used a condom? | Yes1 | |
| | | No2 | |
| 603 | Do you know of any place or person from | Yes1 | |
| | which you can obtain condom? | No2 | 701 |
| | | No response99_ | J , 01 |
| 604 | om which place or people, you can | Shop1 | |
| | obtain condoms? | Pharmacy2 | |
| | 0.0000000000000000000000000000000000000 | Clinic3 | |
| | | Hospital4 | |
| | | Family planning center5 | |
| | | Bar/Guest house/Hotel6 | |
| | ltiple answer possible. Don't read the | Health worker7 | |
| | list but probe) | Peer Educator/Outreach doctor8 | |
| | 1 / | Friend9 | |
| | | Pan Pasal10 | |
| | | Others (Specify)96 | |
| | | No response99 | |
| 604.1 | Did any organization give you condom in the | Yes, free of cost1 | |
| | last 12 months? | Yes, by taking money2 | |
| | | No3 | |
| 605 | How long would it take (from your house or | Less than 30 minutes1 | |
| | the place where you work) to obtain a | More than 30 minutes2 | |
| | condom? | Don't know98 | |
| | | No response99 | |

7.0 KNOWLEDGE AND TREATMENT OF STIS

| Q. N. | Questions | Coding Categories | Skip |
|-------|---|------------------------------|-------------------|
| 701 | Have you ever heard of diseases that can be | Yes1 | |
| | transmitted through sexual intercourse? | No2— | 704 |
| | | No response99— | + |
| 702 | Can you describe any symptoms of STIs in | Lower abdominal pain1 | |
| | women? | Genital discharge2 | |
| | | Foul smelling3 | |
| | | Burning pain on urination4 | |
| | | Genital ulcers/sore5 | |
| | (Do not read possible answers, multiple | Swelling in groin area6 | |
| | answers possible.) | Itching7 | |
| | | Other (Specify) 96 | |
| | | Don't know98 | |
| | | No response99 | |
| 703 | Can you describe any symptoms of STIs in | Genital discharge1 | |
| | men? | Burning pain on urination2 | |
| | | Genital ulcers/sore blister3 | |
| | (Do not read possible answers, multiple | Swellings in groin area4 | |
| | answer possible) | Others (Specify)96 | |
| | | Don't know98 | |
| | | No response99 | |
| 704 | Have you had genital discharge/burning | Yes1 | |
| 701 | urination during the last 12 months? | No2— | |
| | armation during the last 12 months. | Don't know98 | 705 |
| | | No response99_ | J 703 |
| 704.1 | Currently, do you have genital | Yes1 | |
| | discharge/burning urination problem? | No2 | |
| | | Don't know98 | |
| | | No response99 | |
| 705 | Have you had a genital ulcer/sore blister | Yes1 | |
| | during the last 12 months? | No2— | h |
| | | Don't know98 | - 7 06 |
| | | No response99_ | <u> </u> |
| 705.1 | Currently, do you have genital ulcer/sore | Yes1 | |
| | blister? | No2 | |
| | | Don't know98 | |
| | | No response99 | |
| 706 | Last time you had a genital discharge/ | Did not seek treatment1 | |
| | burning urination or a genital ulcer/sore | With private doctor2 | |
| | blister, where did you go for treatment? | In hospital3 | |
| | | Never had such symptoms4 | |
| | | Others (Specify) 96 | |

8.0 KNOWLEDGE, OPINIONS AND ATTITUDES ON HIV/AIDS

| | KNOWLEDGE, OPINIONS AND ATT Ouestions | | Skip |
|------------------|---|--|------------------|
| Q. N. 801 | | Yes1 | экір |
| 801 | Have you ever heard of HIV or the disease called AIDS? | No | |
| | caned AIDS? | No response | |
| 000 | | _ | |
| 802 | Do you know anyone who is infected with | Yes1 | |
| | HIV or who has died of AIDS? | No2— | - 804 |
| | | No response99 | ر ۵۰۰ |
| 803 | Do you have close relative or close fried | Yes, a close relative1 | |
| | who is infected with HIV or has died of | Yes, a close friend2 | |
| | AIDS? | No3 | |
| | | No response99 | |
| 804 | Can a person protect himself/herself from | Yes1 | |
| | HIV, the virus that causes AIDS, by using a | No2 | |
| | condom correctly during each sexual act? | Don't know98 | |
| | | No response99 | |
| 805 | Can a person get HIV, from mosquito bites? | Yes1 | |
| | | No2 | |
| | | Don't know98 | |
| 00.1 | | No response | |
| 806 | Can a person protect himself/herself from | Yes1 | |
| | HIV, by having only one uninfected faithful | No2 | |
| | sex partner? | Don't know98 | |
| 007 | G 12 16 16 16 16 16 16 16 16 16 16 16 16 16 | No response99 | |
| 807 | Can a person protect himself/herself from | Yes1 | |
| | HIV, by abstaining from sexual intercourse? | No2 | |
| | | Don't know | |
| 808 | Can a narran gat IIIV by sharing a meal | No response 99 Yes 1 | |
| 000 | Can a person get HIV, by sharing a meal with someone who is infected? | No | |
| | with someone who is injected: | Don't know98 | |
| | | No response | |
| 809 | Can a person get HIV, by getting injections | Yes 1 | |
| 007 | with a needle that was already used by | No2 | |
| | someone else? | Don't know98 | |
| | | No response99 | |
| 810 | Can a person who inject drug protect | Yes1 | |
| 0.0 | himself/herself from HIV, the virus that | No2 | |
| | causes AIDS, by switching to non-injecting | Don't know98 | |
| | drugs? | No response99 | |
| | (Oral or inhaling drugs) | _ | |
| 811 | Can a pregnant woman infected with HIV | Yes1 | |
| | transmit the virus to her unborn child? | No2 | h |
| | | Don't know98 | ≻ 813 |
| | | No response99— | J |
| 812 | What can a pregnant woman do to reduce | Take medication | |
| | the risk of transmission of HIV to her | (Antiretroviral)1 | |
| | unborn child? | Others (Specify) 96 | |
| | (Do not read the possible answers, | Don't know98 | |
| | multiple answer possible) | No response99 | |
| 813 | Can women with HIV transmit the virus to | Yes1 | |
| | her newborn child through breast-feeding? | No2 | |
| | | Don't know98 | |
| 016.1 | | No response | |
| 813.1 | Do you think a healthy-looking person can | Yes1 | |
| | be infected with HIV? | No | |
| | | Don't know98 | |

| Q. N. | Questions | Coding Categories | Skip |
|-------|---|-----------------------------|-------|
| 813.2 | Can a person get HIV by shaking hand with | Yes1 | |
| | an infected person? | No2 | |
| | | Don't know98 | |
| 813.3 | Can blood transfusion from an infected | Yes1 | |
| | person to the other transmit HIV? | No2 | |
| | | Don't know98 | |
| 814 | Is it possible in your community for | Yes1 | |
| | someone to have a confidential HIV test? | No2 | |
| | (By confidential, I mean that no one will | Don't know98 | |
| | know the result if you don't want him or | No response99 | |
| | her to know it.) | | |
| 814.1 | Do you know where to go for HIV test? | Yes1 | |
| | | No2 | |
| 815 | I don't want to know the result, but have | Yes1 | |
| | you ever had an HIV test? | No2 | 901 |
| | | No response99_ |) /01 |
| 816 | Did you voluntarily take up the HIV test, or | Voluntary1 | |
| | were you required to have the test? | Required2 | |
| | | No response99 | |
| 817 | | | |
| 817.1 | | | |
| 818 | When did you have your most recent HIV | Within the past 12 months1 | |
| | test? | Between 13-24 months2 | |
| | | Between 25-48 months3 | |
| | | More than 48 months4 | |
| | | Don't know98 | |
| | | No response99 | |
| 819 | Please do not tell me the result, but did you | Yes1- | ▶ 901 |
| | find out the result of your HIV test? | No2 | |
| | | No response9— | ▶ 901 |
| 819.1 | Why did you not receive the test result? | Sure of not being infected1 | |
| | | Afraid of result2 | |
| | | Felt unnecessary3 | [|
| | | Forgot it4 | [|
| | | Others (Specify)96 | |
| | | No response99 | |

9.0 AWARENESS OF HIV/AIDS (If answer to Q. 801 "No", Go to Q. 902)

| Q. N. | Questions | Coding C | ategories | Skip to Q.N. |
|-------|---|------------------------|----------------|-----------------|
| 901 | Of the following sources of information, from | which sources have | ve you learned | |
| | about HIV/AIDS? | | | |
| | (Read the following list, multiple answers possible | le) | | _ |
| | Source of Information | Yes | No | _ |
| | 1. Radio | 1 | 2 | |
| | 2. Television | 1 | 2 | |
| | 3. Newspapers/Magazines | 1 | 2 | _ |
| | 4. Pamphlets/Posters | 1 | 2 | _ |
| | 5. School/Teachers | 1 | 2 | _ |
| | 6. Health Worker/Volunteer | 1 | 2 | _ |
| | 7. Friends/Relatives | 1 | 2 | _ |
| | 8. Work Place | 1 | 2 | _ |
| | 9. People from NGO | 1 | 2 | _ |
| | 10. Video Van | 1 | 2 | |
| | 11. Street Drama | 1 | 2 | |
| | 12. Cinema Hall | 1 | 2 | |
| | 13. Community Event/Training | 1 | 2 | |
| | 14. Bill Board/Sign Board | 1 | 2 | |
| | 15. Comic Book | 1 | 2 | |
| | 16. Community Workers | 1 | 2 |] |
| | 96. Others (Specify) | 1 | 2 | |
| 902 | Has anyone give you following information o (Multiple answer possible, read the list) | or items in the past y | year? | |
| | Items | Yes | No | |
| | 1. Condom | 1 | 2 | |
| | 2. Brochure/Booklets/Pamphlets about HIV/AIDS | 1 | 2 | |
| | 3. Information about HIV/AIDS | 1 | 2 | 7 |
| | 96. Others (Specify) | 1 | 2 |] |

10.0 PROMOTION OF CONDOM (If answer to Q. 601 "No" Go to Q. 1004)

| Q. N. | Questions | Coding C | ategories | Skip |
|-------|--|---------------------------------|---|------|
| 1001 | In the past one-year have you seen, read or he | | | |
| | condoms from the following sources? | | | |
| | (Read the following list, multiple answer pos | sible) | | |
| | Sources | Yes | No | |
| | 1. Radio | 1 | 2 | |
| | 2. Television | 1 | 2 | |
| | 3. Pharmacy | 1 | 2 | |
| | 4. Health Post | 1 | 2 | |
| | 5. Health Center | 1 | 2 | |
| | 6. Hospital | 1 | 2 | |
| | 7. Health Workers/Volunteers | 1 | 2 | |
| | 8. Friends/Neighbors | 1 | 2 | |
| | 9. NGOs | 1 | 2 | |
| | 10. Newspapers/Posters | 1 | 2 | |
| | 11. Video Van | 1 | 2 | |
| | 12. Street Drama | 1 | 2 | |
| | 13. Cinema Hall | 1 | 2 | |
| | 14. Community Event/Training | 1 | 2 | |
| | 15. Bill Board/Sign Board | 1 | 2 | |
| | 16. Comic Book | 1 | 2 | |
| | 17. Community Workers | 1 | 2 | |
| | 96. Others (Specify) | 1 | 2 | |
| 1002 | Have you ever seen, heard or read following messages/characters during past one | | | |
| | year? (Multiple answer possible) | | | |
| | Message/characters | Yes | No | |
| | Jhilke Dai Chha Chhaina Condom | 1 | 2 | |
| | 2. Condom Kina Ma Bhaya Hunna Ra | 1 | 2. | |
| | - | | | |
| | 3. Youn Rog Ra AIDS Bata Bachnalai | | _ | |
| | 3. Touli Rog Ra AlDS Bata Bacillalai | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom | 1 | 2 | |
| | | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai | - | | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna | - | | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn | - | | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau 7. Ek Apas Ka Kura | 1 | 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau | 1 | 2 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau 7. Ek Apas Ka Kura 8. Maya Garaun Sadbhav Badaun | 1 1 1 | 2 2 2 2 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau 7. Ek Apas Ka Kura 8. Maya Garaun Sadbhav Badaun 9. Des Pardes | 1 1 1 1 1 1 | 2 2 2 2 2 2 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau 7. Ek Apas Ka Kura 8. Maya Garaun Sadbhav Badaun 9. Des Pardes 10. Manis Sanga Manis Mile hara | 1 1 1 1 1 | 2 2 2 2 2 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau 7. Ek Apas Ka Kura 8. Maya Garaun Sadbhav Badaun 9. Des Pardes 10. Manis Sanga Manis Mile hara Jeeta Kasko Hunchha | 1 1 1 1 1 1 | 2 2 2 2 2 2 2 | |
| | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau 7. Ek Apas Ka Kura 8. Maya Garaun Sadbhav Badaun 9. Des Pardes 10. Manis Sanga Manis Mile hara Jeeta Kasko Hunchha 96. Others | 1 1 1 1 1 1 1 | 2 2 2 2 2 2 2 2 2 | |
| 1003 | Rakhnu Parchha Sarbatra Paine Condom Lai 4 Ramro Sanga Prayog Gare Jokhim Huna Dinna Bharpardo Chhu Santosh Dinchhu Jhanjhat Manna Hunna 5. Condom Bata Surakchhya, Youn Swasthya Ko Rakchhya AIDS Ra Younrog Bata Bachna Sadhai Condom Ko Prayog Garau 6. HIV/AIDS Bare Aajai Dekhee Kura Garau 7. Ek Apas Ka Kura 8. Maya Garaun Sadbhav Badaun 9. Des Pardes 10. Manis Sanga Manis Mile hara Jeeta Kasko Hunchha | 1 1 1 1 1 1 1 | 2 2 2 2 2 2 2 2 2 | |

| Q. N. | Questions | Coding Categories | Skip |
|--------|--|---------------------------------|--------|
| 1003.1 | What? Have you seen, read or heard of? | | |
| | | | |
| | | _ | |
| | | | |
| 1004 | | | |
| 1004 | Generally, where do you gather to inject drug? | | |
| | arag. | | |
| | | | |
| | | _ | |
| 1005 | How many IDUs do you know who also | T. (1) | |
| | know you well? | TotalL | |
| | Knowing someone is defined as being able to contact them, and having had | Don't know98 | _ 1008 |
| | contact with them in the past 12 months | No response99 | |
| 1005.1 | Among them, how many are male and | Male | |
| | female? | Female Don't know98 | |
| | | No response99 | |
| 1006 | Among those persons, please try to estimate | | |
| | the number of people by range of age: | Less than 15 years old | |
| | | 15-19 years old | |
| | | 20-24 years old | |
| | | 25-29 years old | |
| | | 30-40 years old | |
| | | > 40 years old | |
| 1007 | Again, among those, please try to estimate the number of people by religion: | Hindu | |
| | | Buddhist | |
| | | Muslim | |
| | | Christian | |
| | | Others (Specify) | |
| 1008 | How is the person who gave you the coupon | A close friend1 | |
| | related to you? (For Pokhara and Kathmandu only) | A friend | |
| | (1.01 FORHAIA AND KAUIIHAHUU OHIY) | A relative4 | |
| | | A stranger5 | |
| | | Others (Specify)96 Don't know98 | |
| | | No response | |
| | | No response99 | |

11.0 KNOWLEDGE AND PARTICIPATION IN STI AND HIV/AIDS PROGRAMS

| Q. N. | Questions | Coding Categories | Skip to Q.N. |
|-------|--|---|-----------------|
| 1101 | Have you met or discussed or interacted with Peer Educators (PE) or Outreach Educators (OE) or Community Mobilizes (CM) or Community Educators (CE) in the last 12 months? | Yes 1 No 2- No response 99 | → 1105 |
| 1102 | What activities did these PE or OEs involve you in when you met them? (Multiple answers. DO NOT READ the possible answers) | Discussion on how HIV/AIDS is/isn't transmitted | |
| 1103 | Do you know which organization were they from? | KCC 1 HELP 2 KYC 3 PSK 4 | |
| | (Multiple answers. DO NOT READ the possible answers) | LALS 5 Youth Vision 6 Naulo Ghumti 7 CSG 8 INF (Nepalgunj) 9 SMF 10 AHH 11 RICHMOND 12 Nav Kiran 13 Jhapa Plus 14 Namuna 15 Others (Specify) 96 Don't know 98 | |
| 1104 | How many times have these PE, OE, CM and/or CE met you in the last 12 months? | Once | |
| 1105 | Have you visited or been to any out reach center (DIC, IC or CC) in the last 12 months? Drop-In Center (DIC), Information Center (IC), Counseling Center (CC) | Yes | ▶ 1109 |
| 1106 | What did you do when you went to the out reach center (DIC,IC or CC) in the 12 last months? (Multiple answers. DO NOT READ the possible answers) | Went to collect condoms | |

| Q. N. | Questions | Coding Categories | Skip to Q.N. |
|-------|--|---|-----------------|
| 1107 | Do you know which organizations run those out | KCC1 | |
| | reach center (DIC, IC or CC)? | HELP2 | |
| | | KYC3 | |
| | | PSK4 | |
| | (Multiple answers. DO NOT READ the | LALS5 | |
| | possible answers) | Youth Vision6 | |
| | | Naulo Ghumti7 | |
| | | CSG8 | |
| | | INF (Nepalgunj)9 | |
| | | SMF10 | |
| | | AHH11 | |
| | | RICHMOND12 | |
| | | Nav Kiran | |
| | | Jhapa Plus14 | |
| | | Namuna | |
| | | Others (Specify) 96 Don't know98 | |
| 1108 | How many times have you visited out reach | Once | |
| 1100 | centers (DIC, IC or CC) in the last 12 months? | 2-3 times | |
| | contors (B10, 10 of 00) in the last 12 months. | 4-6 times | |
| | | 7-12 times4 | |
| | | More than 12 times5 | |
| 1109 | Have you visited any STI clinic in the last 12 | Yes1 | |
| | months? | No2— | → 1113 |
| 1110 | What did you do when you visited such STI | Blood tested for STI1 | |
| | clinic? | Physical examination conducted | |
| | | for STI identification2 | |
| | (Multiple answers. DO NOT READ the | Discussion on how STI is/isn't | |
| | possible answers given below) | transmitted3 Discussion on safe injecting | |
| | | behavior4 | |
| | | Regular/non-regular use of | |
| | | Condom5 | |
| | | Took a friend with me6 | |
| | | Other (Specify) | |
| | | 96 | |
| 1111 | Do you know which organizations run those STI | AMDA1 | |
| | clinics? | SACTS2 NFCC3 | |
| | | CAC4 | |
| | (Multiple engryons DO NOT DEAD the | Paluwa5 | |
| | (Multiple answers. DO NOT READ the possible answers) | Siddhartha Club6 | |
| | possible answers) | NRCS | |
| | | NSARC8 | |
| | | FPAN9 | |
| | | Others (Specify)96 | |
| | | Don't know98 | |
| 1112 | How many times have you visited STI clinic in | Once1 | |
| | the last 12 months? | 2-3 times2 | |
| | | 4-6 times3 | |
| | | 7-12 times | |
| 1112 | Have you visited any Voluntary Counciling and | More than 12 times | |
| 1113 | Have you visited any Voluntary Counseling and Testing (VCT) centers in the last 12 months? | Yes | 1117 |
| | resumg (vCr) centers in the fast 12 months? | | → 1117 |

| Q. N. | Questions | Coding Categories | Skip to Q.N. |
|-------|---|---|-----------------|
| 1114 | What did you do when you visited such VCT center/s? | Received pre-HIV/AIDS test counseling | |
| | (Multiple answers. DO NOT READ the possible answers) | Received post HIV/AIDS test counseling | |
| | | Took a friend with me8 Other (Specify)96 | |
| 1115 | Do you know which organizations run those VCT centers? | AMDA 1 Youth Vision 2 SACTS 3 NFCC 4 | |
| | (Multiple answers. DO NOT READ the possible answers) | CAC 5 Naulo Ghumti 6 NSARC 7 NRCS 8 FPAN 9 WATCH 10 Namuna 11 Others (Specify) 96 Don't know 98 | |
| 1116 | For how many times have you visited VCT center in the last 12 months? | Once 1 2-3 times 2 4-6 times 3 7-12 times 4 More than 12 times 5 | |
| 1117 | Have you ever participated in HIV/AIDS awareness raising program or community events in the last 12 months? | Yes | 1121 |
| 1118 | If Yes, What activities did you participate in? (Multiple answers. DO NOT READ the possible answers) | Street drama 1 AIDS Day 2 Condom Day 3 Video Shows 4 Group discussions 5 Talk programs 6 HIV/AIDS related training 7 HIV/AIDS related Workshops 8 Condom use demonstrations 9 Others (Specify) 96 | |

| Q. N. | Questions | Coding Categories | Skip |
|-------|--|------------------------------------|------|
| 1119 | Do you know which organizations organized | AMDA 1 | |
| | those activities? | HELP2 | |
| | | KYC3 | |
| | (Multiple answers. DO NOT READ the | Youth Vision4 | |
| | possible answers given below) | NFCC5 | |
| | | LALS6 | |
| | | Naulo Ghumti7 | |
| | | WATCH 8 | |
| | | GWP9 | |
| | | NRCS10 | |
| | | NSARC11 | |
| | | AHH12 | |
| | | Recovery Nepal13 | |
| | | SAHARA14 | |
| | | CSG15 | |
| | | Others (Specify)96 | |
| | | Don't know98 | |
| 1120 | How many times have you participated in such | Not participated within last year0 | |
| | activities in the last 12 months? | Once1 | |
| | | 2-3 times2 | |
| | | 4-6 times3 | |
| | | 7-12 times4 | |
| | | More than 12 times5 | |
| 1121 | Have you heard of any Community Home Based | Yes1 | |
| | Care (CHBC) services that are provided for HIV | No2 | |
| | positive people? | | |
| 1122 | Have you heard of care and support programs that | Yes1 | |
| | provide information regarding ART and ART services | No2 | |
| | necessary for HIV infected people? | | |
| | | | ll |

12.0 STIGMA AND DISCRIMINATION

| Q. N. | Questions | Coding Categories | Skip |
|-------|--|-------------------|------|
| 1201 | If a male relative of yours gets HIV, would | Yes1 | |
| | you be willing to take care of him in your | No2 | |
| | household? | Don't know98 | |
| 1202 | If a female relative of yours gets HIV, | Yes1 | |
| | would you be willing to take care of her in | No2 | |
| | your household? | Don't know98 | |
| 1203 | If a member of your family gets HIV, would | Yes1 | |
| | you want to keep it a secret? | No2 | |
| | | Don't know98 | |
| 1204 | If you knew a shopkeeper or food seller had | Yes1 | |
| | HIV, would you buy food from him/her? | No2 | |
| | | Don't know98 | |
| | | No response99 | |
| 1205 | Do you think a person with HIV should get | Same1 | |
| | the same, more or less health care than | More2 | |
| | someone with any other chronic disease? | Less3 | |
| | • | Don't know98 | |
| | | No response99 | |
| 1206 | If one of your colleagues has HIV but | Yes1 | |
| | he/she is not very sick, Do you think he/she | No2 | |
| | should be allowed to continue working? | Don't know98 | |
| | | No response99 | |

ANNEX – 4: Oral Informed Consent

Oral Informed Consent Form for male Injecting Drug Users

Title: Integrated Biological and Behavioral Surveillance Survey among Injecting Drug

Users in Kathmandu Valley, Pokhara Valley, Eastern *terai* Highway Districts, and Western to Far Western *terai* Districts.

Sponsor: ASHA Project- FHI/Nepal and USAID/Nepal

Principal Investigator/s:

Satish Raj Pandey, FHI/Nepal Laxmi Bilas Acharya, FHI/Nepal

Address: GPO Box 8803

Gopal Bhawan, Anamika Galli, Ward No4,

Baluwatar, Kathmandu, Nepal Phone: +977 1 443 7173 FAX: +977 1 441 7475

Introduction

We are asking you to take part in research study to collect information on knowledge of human immunodeficiency virus (HIV)/ sexually transmitted infections (STIs), HIV/STI related risk behaviors, STI treatment practices and to measure the prevalence of HIV and STI among the populations like you. We want to be sure you understand the purpose and your responsibilities in the research before you decide if you want to be in it. Please ask us to explain any words or information that you may not understand. This discussion is the process needed before the study occurs. You will not be asked to sign this form, and you are only to tell us you understand it and whether you agree to participate in this research. One person will explain you about the study and another person will witness the consent taking process. Both consent taker and the witness will sign the form.

Information about the Research

In total 1245 male injecting drug users (IDUs) will be selected for interview from Kathmandu Valley, Pokhara Valley, Eastern *terai* highway districts and Western to Far Western *terai* highway districts. You are in the pool of possible candidates, but the final selection would be based on your choice.

Study participants in the Kathmandu Valley and the Pokhara Valley will be selected by a process in which individuals who have participated in the study invite others they know to participate. In the Eastern *terai* highway districts and western to far western *terai* highway districts two stage cluster sampling method will be used to select study participants. We will ask you some questions and then ask you to provide blood sample for HIV and syphilis test. We will draw 5-6 ml blood by 10 ml disposable syringe from your vein in your arm.

You will have to spend about 45-60 minutes with us if you decide to participate in this research. We would like to inform that this is a research study and not health care provision service.

Possible Risks

The risk of participating in this study is the minor discomfort during blood drawing. Providing blood sample does not put you at any other risk. Some of the questions we ask make you feel uncomfortable to answer them. You are free not to answer such questions and also to stop participating in the

research at any time you want to do so. You might feel some mental stress after getting your test results. But at such time you will get counseling on HIV and STI through a qualified counselor. They will provide information about STIs and counseling for any mental stress you have.

There may be some risk that people may see you associated with the study, either now or when you return for your test results. If you know the status of your HIV and other STI tests you may have some mental stress related to the treatment of STI and other related issues.

Possible Benefits

You will be provided with free treatment, if currently you have any STI symptoms. You will be given lab test results of HIV and Syphilis and made aware of how STI/HIV is transmitted and how it can be prevented and controlled. If your STI tests are positive for the curable sexual infection such as syphilis and you have not already been treated for this, you will be offered free treatment. We will refer you for treatment for HIV but will not provide this treatment for you. If you go to the ART sites/hospital run by the Government of Nepal, you will get service free of cost. You will also be provided with information on safer sex to reduce your risk of being infected by or infecting your sexual partners. The information we obtain from this research will help to plan strategies to control and prevent further spread of HIV/AIDS and other sexually transmitted diseases in your cities and particularly among your community.

At the time of sample collection the study team members will give you the detailed address of the place and the dates where you can hear your test results of syphilis and HIV. Test result will be given by a qualified counselor with pre and post test counseling. Test results can only be obtained by presenting the study ID card with your code number on it. If you do not have the ID card when you return for the test results we cannot give you the results because we will not be able to recognize you without the study ID card.

If You Decide Not to Be in the Research

You are free to decide whether or not to take part in this research. Your decision will not affect in any way in the health services you are seeking now and you would normally receive.

Confidentiality

We will protect information collected about you and your taking part in this study to the best of our ability. We will not use your name in any reports. A court of law could order medical records shown to other people, but that is unlikely. We will not ask you to put your name on this form, but only ask you to agree verbally (with spoken words).

Payment

We will not pay you for your participation but you will be given, condom and reading materials about STI/HIV/AIDS as compensation for your participation in the research. Moreover, we will provide you a fixed amount of Nepalese Rupees (NRs.) 100.00 (approximately, US\$1.50) after completing the study requirements to cover the local transportation you may use to come to the study center for interview and for providing biological sample. In Kathmandu and Pokhara an additional NRs. 50.0 (US\$ 0.70) for each successful referral of peers for the study will be provided. You may refer up to three peers or friends.

Leaving the Research

You may leave the research at any time. If you do, it will not change the healthcare you normally receive from the study clinic.

If you have a questions about the study

If you have any questions about the research, please contact:

Satish Raj Pandey, ASHA project - FHI/Nepal, Baluwatar, Kathmandu, Phone: 01-4437173; **OR** *Siddhartha Man Tuladhar*, New ERA, Kalopool, Kathmandu, Phone: 01-4413603; **OR** *Laxmi Bilas Acharya*, ASHA project - FHI/Nepal, Baluwatar, Kathmandu, Phone: 01-4437173

We will not be able to pay for/care for injuries that occur as a result of the study.

Your Rights as a Participant

This research has been reviewed and approved by the Institutional Review Board of Family Health International and Nepal Health Research Council (NHRC). If you have any questions about how you are being treated by the study or your rights as a participant you may contact *Satish Raj Pandey*, Family Health International (FHI), Baluwatar, Kathmandu, Phone: 01-4437173 and/or Mr. David Borasky, Protection of Human Subjects Committee, PO Box 13950, Research Triangle Park, NC 27709, USA, phone number: [International Access Code]-1-919-405-1445, e-mail: dborasky@fhi.org.]

VOLUNTEER AGREEMENT

| Signature of witness | Date |
|---|------|
| | |
| | • • |
| tify that the nature and purpose, the potential cipating in this research have been explained | • • |

ANNEX – 5: Clinical/Lab Checklist

CONFIDENTIAL

INTEGRATED BIO- BEHAVIORAL SURVEY (IBSS) AMONG INJECTING DRUG USERS IN SELECTED SITES OF NEPAL FHI/NEW ERA/SACTS – 2009

Clinical/Lab Checklist

| Respondent ID | Number | r: Date | e: 2065// |
|--|---|--------------|-------------------|
| Name of Clinician: | | | |
| Name of Lab Technician: | | | |
| (33A) Clinical TEST (B) | Specimen Collection | | |
| | | <u>Yes</u> | <u>No</u> |
| Weight :Kg. | Pre-test counseled | 1 | 2 |
| B.P. :mm of Hg | Blood Collected for HIV & Syphilis | 1 | 2 |
| Pulse : | Date & place for post-test results given | 1 | 2 |
| Temperature:° F | Condom given IEC materials given | 1 1 | 2 2 |
| 1.0 Syndromic Treatment I | nformation | | |
| | l genital discharge/burni didymis in the past one mo | | on/swelling and |
| 1. Yes [If yes, give urethral dis | 2. No charge/scrotal swelling sy | ndrome tre | eatment] |
| 102. Have you had genital ulc | er/sore blister in the past on | e month? | |
| 1. Yes [If yes, give genital ulce | 2. No er syndrome treatment an | d time for f | follow-up] |
| 103. Have you had a tender or in the past one month? | non-tender/solid or fluctua | nnt swelling | in the groin area |
| 1. Yes [If yes, give inguinal swofollow-up] | 2. No elling (bubo) syndrome tro | eatment an | d time for |

ANNEX – 6: Study Centers

| District | Lab Centers | No. of Centers | Sample Covered | Total | |
|----------|-------------|----------------|----------------|-------|--|
| | Kakarvitta | | 20 | | |
| Thomas | Bhadrapur | 4 | 10 | 75 | |
| Jhapa | Birtamod | | 20 | 75 | |
| | Damak | | 25 | l | |
| | Urlabari | | 30 | | |
| Morang | Belbari | 3 | 25 | 135 | |
| | Biratnagar | | 80 | | |
| Sunsari | Dharan | 2 | 105 | 135 | |
| Sullsall | Itahari | 2 | 30 | 133 | |
| | Total | 9 | 345 | 345 | |

ANNEX – 7: Participation in Post Test Counseling

| Date | Counseling Center | Expected Client | Client Counseled | | Client with | Client with |
|-----------------------------|----------------------|--------------------|---------------------|------|----------------|----------------|
| | Center | Chent | N | % | HIV+ | HIV- |
| February 11 - 13,2009 | Kakarvitta | 20 | 8 | 40.0 | 0 | 8 |
| February 11 - 12,2009 | Bhadrapur | 10 | 9 | 90.0 | 1 | 8 |
| February 15 - 19,2009 | Damak | 25 | 11 | 44.0 | 1 | 10 |
| February 17 - 20,2009 | Birtamod | 20 | 7 | 35.0 | 0 | 7 |
| February 20 - 24,2009 | Urlabari | 30 | 9 | 30.0 | 0 | 9 |
| March 15 - 19,2009 | Belbari | 25 | 5 | 20.0 | 2 | 3 |
| February 28 – March 22,2009 | Biratnagar | 80 | 22 | 27.5 | 1 | 21 |
| February 22 - 25,2009 | Itahari | 30 | 7 | 23.3 | 0 | 7 |
| March 08 - 22,2009 | Dharan | 105 | 11 | 10.5 | 0 | 11 |
| | Total | 345 | 89 | 25.8 | 5 | 84 |

ANNEX – 8: HIV Prevalence by Study Centers

| District | Total sample | HIV Positive | % |
|-----------------------|--------------|--------------|------|
| Interviewed Districts | | | |
| Morang | 135 | 17 | 12.6 |
| Sunsari | 135 | 7 | 5.2 |
| Jhapa | 75 | 4 | 5.3 |
| Tota | 1 345 | 28 | 8.1 |

ANNEX – 9: Reasons for Not Injected Drugs on the Previous Day of the Survey

| Injecting practice | | round 03) | d Second round (2005) | | Third round (2007) | | Fourth round (2009) | |
|--|------|--------------|-----------------------------|------|--------------------|------|---------------------|------|
| | n=50 | % | n=89 | % | n=78 | % | n=81 | % |
| Reasons for not injecting the previous day yesterday * | | | | | | | | |
| Lack of money | 17 | 34.0 | 51 | 57.3 | 32 | 41.0 | 27 | 33.3 |
| To quite slowly | 17 | 34.0 | 15 | 16.9 | 17 | 21.8 | 14 | 17.3 |
| Unavailability/lack of drugs | 6 | 12.0 | 6 | 6.7 | 5 | 6.4 | 25 | 30.9 |
| Busy in house work | 5 | 10.0 | 7 | 7.9 | 9 | 11.5 | 5 | 6.2 |
| Due to illness | 0 | 0.0 | 3 | 3.3 | 4 | 5.1 | 1 | 1.2 |
| Trying other medicines | 0 | 0.0 | 3 | 3.3 | 0 | 0.0 | 4 | 4.9 |
| Not a regular users (Use sometimes only) | 0 | 0.0 | 0 | 0.0 | 6 | 7.7 | 3 | 3.7 |
| Others | 7 | 14.0 | 6 | 6.7 | 6 | 7.7 | 4 | 4.9 |

^{*} Note: Because of multiple answers, percentages add up to more than 100.

ANNEX – 10: Typical Injecting Points

| Typical injection | First round (2003) | | Second (20 | | Third 1 (200 | | Fourth round (2009) | | |
|-------------------|--------------------|------|---------------|------|--------------|------|---------------------|------|--|
| points | N=345 | % | N=345 | % | N=345 | % | N=345 | % | |
| Upper arms | 141 | 40.9 | 104 | 30.1 | 82 | 23.8 | 35 | 10.2 | |
| Wrists | 107 | 31.0 | 73 | 21.2 | 119 | 34.5 | 51 | 14.8 | |
| Forearms | 43 | 12.5 | 76 | 22.0 | 11 | 3.2 | 95 | 27.5 | |
| Back of palm | 24 | 7.0 | 16 | 4.6 | 7 | 2.0 | 3 | 0.9 | |
| Calves | 14 | 4.1 | 3 | 0.9 | 42 | 12.2 | 138 | 40.0 | |
| Thigh | 9 | 2.6 | 46 | 13.3 | 2 | 0.6 | 19 | 5.5 | |
| Armpit | 0 | 0.0 | 13 | 3.8 | 75 | 21.7 | 0 | 0.0 | |
| Arch | 0 | 0.0 | 4 | 1.2 | 0 | 0.0 | 3 | 0.9 | |
| Others | 7 | 2.0 | 10 | 2.9 | 7 | 2.0 | 1 | 0.3 | |

ANNEX – 11: Gathering Place to Inject Drugs

| S.N | Gathering places of IDUs to inject drugs | First round (2003) | | Second round (2005) | | Third round (2007) | | Fourth round (2009) | |
|-----|--|-----------------------|------|------------------------|------|-----------------------|------|---------------------|------|
| | | | % | N=345 | % | N=345 | % | N=345 | % |
| 1. | Own room/friends room/Drug seller's/User's house | 115 | 33.3 | 36 | 10.4 | 75 | 21.7 | 47 | 13.6 |
| 2. | Jogbani (India) | 70 | 20.3 | 136 | 39.4 | 105 | 30.4 | 88 | 25.5 |
| 3. | Forest/Bushes | 70 | 20.3 | 98 | 28.4 | 98 | 28.4 | 144 | 41.7 |
| 4. | Open ground/town planning area /open places | 35 | 10.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| 5. | River bank/Slum area/Pond/bridge area | 16 | 4.6 | 42 | 12.2 | 22 | 6.4 | 33 | 9.6 |
| 6. | Garage/Junk store/Buspark | 12 | 3.5 | 6 | 1.7 | 0 | 0.0 | 1 | 0.3 |
| 7. | Pani Tanki (India) | 7 | 2.0 | 7 | 2.0 | 15 | 4.3 | 2 | 0.6 |
| 8. | Temple area | 5 | 1.4 | 0 | 0.0 | 0 | 0.0 | 3 | 0.9 |
| 9. | Shop | 5 | 1.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| 10. | Vacant house/New construction home | 4 | 1.2 | 0 | 0.0 | 1 | 0.3 | 2 | 0.6 |
| 11. | Galgaliya (India) | 3 | 0.9 | 0 | 0.0 | 17 | 4.9 | 8 | 2.3 |
| 12. | Pool house/Swimming pool | 2 | 0.6 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| 13. | Toilet/Public toilet | 1 | 0.3 | 6 | 1.7 | 7 | 2.0 | 12 | 3.5 |
| 14. | Road/Railway lick | 0 | 0.0 | 8 | 2.3 | 0 | 0.0 | 1 | 0.3 |
| 15. | Naxalbadi (India) | 0 | 0.0 | 2 | 0.6 | 0 | 0.0 | 0 | 0.0 |
| 16. | Around campus/school | 0 | 0.0 | 2 | 0.6 | 0 | 0.0 | 4 | 1.2 |
| 17. | Others | 0 | 0.0 | 2 | 0.6 | 5 | 1.4 | 0 | 0.0 |

ANNEX – 12: Combination of Different Drugs Injected

| S.N | Drugs Combination | N=319 |
|-----|--|-------|
| 1. | Norphin + Avil + Diazepam | 123 |
| 2. | Diazepam + Phenergan + Lubrigesic | 47 |
| 3. | Avil + Diazepam + Nerjesik | 27 |
| 4. | Norphin + Avil + Diazepam + Phenergan | 23 |
| 5. | Norphin + Avil + Diazepam + Phenergan+Fortwin | 19 |
| 6. | Avil + Diazepam + Phenergan + Lubrigesic | 12 |
| 7. | Avil + Diazepam + Phenergan+ Nerjesik | 9 |
| 8. | Norphin + Diazepam + Phenergan | 6 |
| 9. | Diazepam + Tidigesic + Phenergan | 5 |
| 10. | Avil + Diazepam + Phenergan+ Fortwin + Nerjesik | 4 |
| 11. | Avil + Diazepam + Phenergan | 4 |
| 12. | Avil + Diazepam + Lubrigesic | 4 |
| 13. | Avil + Diazepam + Phenergan + Fortwin | 4 |
| 14. | Avil + Diazepam + Fortwin | 3 |
| 15. | Norphin + Avil + Diazepam + Fortwin | 3 |
| 16. | Norphin + Avil + Diazepam + Lubrigesic | 2 |
| 17. | Avil+ Lubrigesic | 2 |
| 18. | Norphin + Diazepam + Lubrigesic | 2 |
| 19. | Nergesic + Avil + Phenergan | 2 |
| 20. | Diazepam + Phenergan + Fortwin + Nerjesik | 1 |
| 21. | Avil + Tidigesic+ Phenergan+Calmpose | 1 |
| 22. | Avil + Diazepam + Phenergan+ Calmpose+ Nerjesik | 1 |
| 23. | Avil + Diazepam + Tidigesic+ Phenergan | 1 |
| 24. | Avil + Diazepam + Tidigesic | 1 |
| 25. | Avil + Tidigesic+Elgic | 1 |
| 26. | Avil + Diazepam | 1 |
| 27. | Diazepam + Phenergan + Stargun | 1 |
| 28. | Avil + Tidigesic + Phenergan + Fortwin | 1 |
| 29. | Avil + Lubrigesic + Fortwin | 1 |
| 30. | Diazepam + Phenergan + Lubrigesic + Proxyvon | 1 |
| 31. | Avil + Diazepam + Phenergan + Fortwin + Stargun | 1 |
| 32. | Norphin + Avil | 1 |
| 33. | Avil + Diazepam + Fortwin + Nerjesik | 1 |
| 34. | Avil + Phenergan + Fortwin | 1 |
| 35. | Norphin + Avil + Phenergan + Lubrigesic | 1 |
| 36. | Norphin + Diazepam + Nerjesic | 1 |
| 37. | Avil + Diazepam + Phenergan + Spasmindant + Nerjesic | 1 |

Note: Because of multiple answers, numbers may add up to more than 100.

ANNEX – 13: Drug Switching Practice of IDUs and Reasons for it

| Drug switching behavior of IDUs | | round 003) | Second round (2005) | | Third round (2007) | | Fourth round (2009) | |
|---|-----|---------------|------------------------|-------|-----------------------|-------|---------------------|-------|
| | | % | N | % | N | % | N | % |
| Switched from one drugs to another drugs in past | | | | | | | | |
| month Q204.1 | | | | | | | | |
| Yes | 8 | 2.3 | 5 | 1.4 | 3 | 0.9 | 12 | 3.5 |
| No | 337 | 97.7 | 340 | 98.6 | 342 | 99.1 | 333 | 96.5 |
| Total | 345 | 100.0 | 345 | 100.0 | 345 | 100.0 | 345 | 100.0 |
| Switched From | | | | | | | | |
| Brown sugar to Tidigesic | 8 | 100.0 | 1 | 20.0 | 0 | 0.0 | 0 | 0.0 |
| Brown sugar to Proxyvon | 0 | 0.0 | 1 | 20.0 | 0 | 0.0 | 0 | 0.0 |
| Brown sugar to Norphin + Diazepam | 0 | 0.0 | 1 | 20.0 | 0 | 0.0 | 0 | 0.0 |
| Norphin + Nitrovate to Avil | 0 | 0.0 | 1 | 20.0 | 0 | 0.0 | 0 | 0.0 |
| Norphin + Diazepam + Avil to Alcohol + Phensydole | 0 | 0.0 | 1 | 20.0 | 0 | 0.0 | 0 | 0.0 |
| Brown Sugar to Nergesic | 0 | 0.0 | 0 | 0.0 | 1 | 33.3 | 0 | 0.0 |
| Norphin + Fortwin to Nergesic + Diazepam + Avil | 0 | 0.0 | 0 | 0.0 | 1 | 33.3 | 0 | 0.0 |
| Tidigesic + Diazepam + Phenergan + Algic to Brown Sugar | 0 | 0.0 | 0 | 0.0 | 1 | 33.3 | 0 | 0.0 |
| Norphin + Diazepam + Avil to Proxyvon | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Diazepam + Tidigesic + Avil to Phensydyl | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Lubrigesic to Velium 10 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Brown sugar to Diazepam + Phenergan + Lubrigesic | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Diazepam + Avil + Nerjesic to Corex + Nitrosun | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Avil + Phenergan + Nerjesic to Corex + Nitrosun | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Diazepam + Avil + Nerjesic to Marijuana + Nitrosun | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Diazepam + Avil + Nerjesic to Brown sugar + Nitrosun | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Avil + Phenergan + Nerjesic to Phensydyl + Corex + Nitrosun | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Diazepam + Tidigesic + Phenergan to Norphin + Diazepam + | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Avil + Phenergan | | | | | | | | |
| Brown sugar to Diazepam + Phenergan + Nerjesic | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Norphin + Diazepam + Avil to Marijuana + Spasmo + Nitrosun | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 |
| Total | 8 | 100.0 | 5 | 100.0 | 3 | 100.0 | 12 | 100.0 |
| Reasons for switching | | | | | | | | |
| Not access of brown sugar | 5 | 62.5 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| To reduce/Leave slowly of drug | 3 | 37.5 | 0 | 0.0 | 0 | 0.0 | 3 | 25.0 |
| Unavailability/Scarcity of drug | 0 | 0.0 | 3 | 60.0 | 1 | 33.3 | 4 | 33.3 |
| Lack of money | 0 | 0.0 | 2 | 40.0 | 1 | 33.3 | 3 | 25.0 |
| Others | 0 | 0.0 | 0 | 0.0 | 1 | 33.3 | 2 | 16.7 |
| Total | 8 | 100.0 | 5 | 100.0 | 3 | 100.0 | 12 | 100.0 |

ANNEX – 14: Name of Institutions and Types of Treatment Received

| Types of Treatments Types of Institutions | Residential rehabilitation | With other drug | Out patient counseling |
|---|----------------------------|-----------------|------------------------|
| N=135 | % | % | % |
| Punarjivan Kendra | 19.3 | - | 2.2 |
| Addiction Recovery Center (ARC) | 14.8 | - | - |
| Lifeline Help Group | 11.9 | - | - |
| Richmond Fellowship Center | 11.9 | - | - |
| Happy Nepal Wisdom Foundation | 9.6 | 0.7 | - |
| Gurukul | 4.5 | - | - |
| Samudayik Upachar Kendra | 3.7 | - | - |
| Astha Foundation | 3.7 | - | - |
| LALS | 1.5 | - | - |
| New Hope Foundation | 0.7 | - | - |
| Sparsha Nepal | 0.7 | - | - |
| B.P.Memorial Hospital | - | - | - |
| Own Home | - | 1.7 | - |
| Others | 7.4 | 2.2 | 0.7 |
| Total | 89.6 | 3.7 | 3.0 |

Note: Because of multiple answers percentages may add up to more than 100.

ANNEX – 15: Reasons for not Using Condom in the Last Sex by Type of Sex Partners

| Reasons of not using condom | First rou | nd (2003) | Second round (2005) | | Third round (2007) | | Fourth round (2009) | |
|--|-----------|-----------|------------------------|------|--------------------|------|---------------------|------|
| C | N | % | N | % | N | % | N | % |
| Reasons of not using condom with regular partner in the last sexual intercourse | | | | | | | | |
| Not available | 1 | 1.1 | 8 | 8.6 | 3 | 3.1 | 4 | 4.7 |
| Partner objected | 7 | 7.9 | 2 | 2.2 | 5 | 5.2 | 10 | 11.6 |
| Don't like them | 17 | 20.2 | 23 | 24.7 | 29 | 29.9 | 33 | 38.4 |
| Used other contraceptive | 13 | 14.6 | 14 | 15.1 | 31 | 32.0 | 21 | 24.4 |
| Didn't think it was necessary | 68 | 76.4 | 60 | 64.5 | 61 | 62.9 | 7 | 8.1 |
| Didn't think of it | 1 | 1.1 | 1 | 1.1 | 2 | 2.1 | 0 | 0.0 |
| Willing to have baby | 0 | 0.0 | 3 | 3.2 | 4 | 4.1 | 22 | 25.6 |
| Trust on partner | 0 | 0.0 | 5 | 5.4 | 0 | 0.0 | 9 | 10.5 |
| Sexual Unsatisfaction | 0 | 0.0 | 0 | 0.0 | 2 | 2.1 | 1 | 1.2 |
| Total | 89 | * | 93 | * | 97 | * | 86 | * |
| Reasons of not using condom with sex worker in the last sexual intercourse | | | | | | | | |
| Not available | 14 | 56.0 | 16 | 66.7 | 9 | 40.9 | 13 | 54.2 |
| Partner objected | 3 | 12.0 | 1 | 4.2 | 3 | 13.6 | 2 | 8.3 |
| Don't like them | 4 | 16.0 | 7 | 29.2 | 7 | 31.8 | 12 | 50.0 |
| Didn't think it was necessary | 3 | 12.0 | 0 | 0.0 | 2 | 9.1 | 0 | 0.0 |
| Didn't think of it | 3 | 12.0 | 5 | 20.8 | 1 | 4.5 | 0 | 0.0 |
| Others | 1 | 4.0 | 0 | 0.0 | 3 | 13.6 | 0 | 0.0 |
| Sexual Unsatisfaction | 0 | 0.0 | 0 | 0.0 | 2 | 9.1 | 1 | 4.2 |
| Used other contraceptive | 0 | 0.0 | 0 | 0.0 | 1 | 4.5 | 0 | 0.0 |
| Total | 25 | * | 24 | * | 22 | * | 24 | * |
| Reasons of not using condom with non- regular partner in the last sexual intercourse | | | | | | | | |
| Not available | 6 | 20.7 | 19 | 41.3 | 14 | 28.6 | 23 | 34.9 |
| Partner objected | 3 | 10.3 | 2 | 4.3 | 3 | 6.1 | 11 | 16.7 |
| Don't like them | 5 | 17.2 | 14 | 30.4 | 10 | 20.4 | 18 | 27.3 |
| Used other contraceptive | 1 | 3.4 | 2 | 4.3 | 4 | 8.2 | 3 | 4.6 |
| Didn't think it was necessary | 13 | 44.8 | 11 | 23.9 | 26 | 53.1 | 9 | 13.6 |
| Didn't think of it | 5 | 17.2 | 1 | 2.2 | 5 | 10.2 | 7 | 10.6 |
| Trust on partner | 0 | 0.0 | 1 | 2.2 | 0 | 0.0 | 11 | 16.7 |
| Sexual Unsatisfaction | 0 | 0.0 | 3 | 6.5 | 1 | 2.0 | 1 | 1.5 |
| Others | 3 | 10.3 | 2 | 4.3 | 3 | 6.1 | 0 | 0.0 |
| Total | 29 | * | 46 | * | 49 | * | 66 | * |

^{*} Because of multiple answers percentages may add up to more than 100.