# Knowledge Regarding HIV \& AIDS among Opioid Substitution Client of Banke, Nepal 

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#### Abstract

The issue of HIV and AIDS in substance and drug users is of significant concern, necessitating interventions to improve knowledge about the disease among individuals undergoing opioid substitution therapy. This study aimed to assess the existing knowledge of HIV and AIDS among opioid substitution therapy clients in the Banke District of Nepal. A descriptive, cross-sectional study was conducted among 50 respondents selected using non-probability purposive sampling techniques from the Methadone Maintenance Treatment Program at Bheri Zonal Hospital in Nepal. Data was collected using a semi-structured interview schedule and analyzed using both descriptive and inferential statistics. The findings indicated that $58.0 \%$ of respondents recognized HIV and AIDS as a communicable disease, and all respondents identified unsafe sexual contact and intravenous drug use as the primary modes of transmission. Additionally, $96.0 \%$ of respondents identified multiple sex partners as a high-risk group, and $100 \%$ and $98.0 \%$ of respondents recognized that avoiding sharing needles and using condoms during sex, respectively, could prevent transmission. The study also found that the primary source of information for respondents was peer groups. The findings indicate that respondents had a moderate level of knowledge about HIV and AIDS and its treatment. The study also revealed that there were misconceptions and insufficient knowledge regarding HIV and AIDS transmission, prevention, and treatment among intravenous drug users.


Keywords: hiv aids; knowledge; opioid substitution client; nepal

## Introduction

## Background

Acquired immunodeficiency syndrome (AIDS) is the most severe manifestation of a range of illnesses related to human immunodeficiency virus (HIV) infection. HIV transmission occurs through exposure to bodily fluids via high-risk behaviors, such as heterosexual intercourse with an HIV-infected partner, injection drug use, and male homosexual relations. Additionally, individuals who received blood or blood products contaminated with HIV, infants born to mothers with HIV infection who were breast-fed, and health care workers exposed to needle-stick injury from an infected patient are at risk [1].
The World Health Organization (WHO) designates Acquired Immunodeficiency Syndrome (AIDS) as the ultimate stage of Human Immunodeficiency Virus (HIV) infection. HIV is a retrovirus that infects cells of the immune system, compromising their functionality and rendering the individual more susceptible to infections. Despite efforts to
combat the spread of HIV, the AIDS epidemic continues to expand, with global estimates indicating that over 40 million people are infected [2].

HIV remains a significant public health concern worldwide, having resulted in the deaths of more than 35 million individuals to date. In 2015, there were approximately 1.1 million deaths ( $940,000-1.3$ million) attributed to HIV-related causes globally. The number of people living with HIV at the end of 2015 was approximately 36.7 million (34.0-39.8 million), with 2.1 million (1.8-2.4 million) newly infected individuals reported globally in the same year. Presently, only an estimated $54 \%$ of individuals with HIV are aware of their status. In 2014, around 150 million children and adults across 129 low- and middle-income countries received HIV testing services [3].
The Human Immunodeficiency Virus (HIV) epidemic in Nepal exhibits significant heterogeneity with respect to the most-at-risk populations (MARPs), geographic distribution, and risk factors in different
geographic regions. The epidemic is concentrated among key populations such as female sex workers (FSWs), people living with injecting drug (PWID), men who have sex with men (MSM), and some migrants. Effective prevention interventions need to be scaled up among MARPs and their direct sexual partners. However, Nepal's poverty, political instability, gender inequality, low levels of education and illiteracy, and the stigma and discrimination surrounding HIV and AIDS make the task challenging. The first case of AIDS in Nepal was reported in 1988, and as of December 15, 2011, 19,118 cases of HIV infection were officially reported. However, due to limitations in Nepal's public health surveillance system, the actual number of infections is thought to be higher, with an estimated 50,200 people living with HIV as of 2011, and approximately $60 \%$ of those infected are unaware of their sero-status [5].

Furthermore, despite the adult population estimated HIV and AIDS infection rate being below the $1 \%$ threshold that is considered "generalized and severe," the prevalence rate marks a concentrated epidemic among at-risk populations such as FSWs, IDUs, MSM, and migrants. The National Center for AIDS and STD Control (NCASC) estimates the number of HIV cases in Nepal to be closer to 70,000 in 2012, with $6.8 \%$ being PWID. Injection drug use appears to be extensive in Nepal and overlaps with commercial sex. Moreover, the high number of sex workers who migrate or are trafficked to Mumbai, India, to work increases HIV prevalence in the sex workers' network in Nepal more rapidly. Key populations (IDUs, MSM, FSWs, male labor migrants, and clients of FSWs) account for about $58 \%$ of HIV infections among adults [6].

## Rational

As of 2014, approximately 36.9 million individuals were living with Human Immunodeficiency Virus (HIV), which caused 1.2 million deaths. The majority of those infected reside in sub-Saharan Africa. Since its discovery, HIV/AIDS has been responsible for an estimated 39 million deaths worldwide, and is considered a pandemic due to its prevalence across a large geographic area and active transmission [7].

According to UNAIDS, the global estimated range of People Who Inject Drugs (PWID) is between $11,008,500-21,222,000$, with a midpoint prevalence of $0.37 \%$, and the estimated range of PWID who are HIV infected is between $764,000-6,589,000$, with a midpoint prevalence of $18.9 \%$. In South Asia, the estimated range of PWID is between 434,000726,500 , with a midpoint prevalence of $0.06 \%$, and the estimated range of PWID who are HIV infected is between 34,500-135,500, with a midpoint prevalence of $13.08 \%$ [8].

HIV \& AIDS is one of the most prevalent issues in Substances \& Drug users. In Nepal HIV prevalence shot up among injecting drug users from $2.2 \%$ in 1995 to nearly $50 \%$ by 1998. HIV prevalence among injecting drug users in Indonesia reached 15 percent in 1999/2000 and within the following year, $40 \%$ of injectors in treatment centers in Jakarta were found to be HIV positive. In 2001, seven Chinese provinces showed70 per cent HIV prevalence among injecting drug users in a number of areas [9].
National HIV and AIDS Action Plan 2008-2011 a total of 12,387 HIV cases had been reported in Nepal; the majority of which come from the 30-39 age group. Among HIV positive people, the male to female sex ratio is 2.1:1. All modes of transmission have been reported in Nepal; however, sexual transmission and sharing of unclean needles remain the most common [10].
Prevalence of HIV in Different Sub Populations- Intravenous Drug Users $23.02 \%$, Female Sex Workers $1.45 \%$, Men Having Sex with Men $1.71 \%$, Migrant Workers 1.90\%, General Adult Population 0.49\% [11].

Looking specifically at the situation in Kathmandu Valley, it is now estimated that more than $50 \%$ of IDUs there are HIV-positive (HMG Nepal 2000). As there remain large groups of uninfected IDUs (and a constant stream of uninfected youth beginning to inject each year), and as the virus is spreading so quickly among IDUs, prevention efforts need to concentrate on effective approaches to preventing transmission among drug users. [12].

## Objectives of the Research

- To assess the existing knowledgeabout transmission \& prevention of HIV \& AIDS among PWID.
- To explore the different mode of HIV \& AIDS transmission.
- To assess risk behavior regarding HIV \& AIDS.
- To distinguish the different preventive measures of HIV \& AIDS.
- To assess knowledge regarding HIV \& AIDS treatment.


## Significance of the Study

Be beneficial to the researcher to gain in depth understanding on knowledge regarding HIV \& AIDS among PWID.This study might be helpful to be aware of HIV transmission problem \& implement prevention programme to reduce the incidence of HIV \& AIDS among the drug users. The findings of this study might be beneficial as a foundation for future study.

## Methods

## Research Design

A descriptive cross sectional study design was used to gather information on knowledge regarding HIV \& AIDS among drug users.

## Research Setting and Population

This research was conducted at OST, setting as OPD, delivering Methadone Maintenance Treatment at BHZ at Banke, a tertiary level hospital in Midwestern region of Nepal.
Population was included client attending OST department.

## Sampling Technique \& Sample size

Non Probability Purposive Sampling technique was used.
Sample size was 50.

## Research Instrumentation

The research instrument consists of semi structured interview by the researcher herself. The research instrument was designed in both English \& Nepali version.
The Questionnaires consist of two parts-
Part I: Questions related to Socio-demographic variables.
Part II: Questions related to Knowledge regarding HIV \& AIDS.

## Validity and Reliability of Research Instrument

Content validity was established by extensive literature review, consulting with research advisors, statistician, subject matter experts and valuable suggestions from colleagues.

Reliability was added by pre-testing.
Ethical Consideration

Prior to data collection, formal administrative approval was obtained from research committee of Bheri Zonal Hospital,Nepal.

Informed written consent was taken from each respondent after explaining objectives of the study.

The participation in the study was voluntarily, they have the right to ask questions and that they could withdraw from the study at any time without having to give a reason.

The collected data was kept confidential and used only for research purpose.

## Data Collection Procedure

Permission letter was obtained from Bheri Zonal Hospital (BHZ) \& Change Team (CT) before conducting research.

Purpose of the study was explained to respondents before collection of the data.

Informed written consent was obtained from the respondents prior to data collection.

The data was collected from face to face interview schedule technique.
The average time required to complete interview was about 15-20 minutes.
Confidentiality of the respondents was maintained by using code number \& information collected was used only for study purpose.

## Data analysis procedure

Collected forms werechecked, edited, coded, and analyzed for its completeness and accuracy. Data was stored safely. Data was analyzed using Statistical Package for the Social Sciences (SPSS) version 20. Analyzed data was interpreted by using descriptive and inferential statistical method. Findings of the study were presented in tabular form.

## Results

## Part I: Demographic Information of the Respondents

| Variables | Frequency | Percentage |  |
| :--- | :--- | :--- | :--- |
| Age Interval |  |  |  |
| $21-30$ |  | 20 |  |
| $31-40$ |  | 6 | 40.0 |
| $41-50$ |  | 4 | 12.0 |
| $51-60$ |  | 8.0 |  |

Table 1: Socio Demographic Characteristics of respondents $\mathbf{n}=\mathbf{5 0}$
Table 1 shows that nearly half of the respondents ( $40 \%$ ) were from age group 21-30 years \& 31-40 years, followed by 41-50 years (12\%) \& 51-60 years (8\%).

| Variables | Frequency |  | Percentage |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender |  |  |  |  |  |  |  |
| Male |  | 49 |  |  | 98.0 |  |  |
| Female |  | 1 |  |  | 2.0 |  |  |
| Ethinicity |  |  |  |  |  |  |  |
| Janjati |  | 29 |  |  | 58.0 |  |  |
| Chhetri |  | 11 |  |  | 22.0 |  |  |
| Brahmin | 4 |  |  | 8.0 |  |  |  |
| Thakuri | 4 |  |  | 8.0 |  |  |  |
| Dalit |  | 2 |  |  | 4.0 |  |  |
| Religion |  |  |  |  |  |  |  |
| Hindu |  | 35 |  |  | 70.0 |  |  |
| Muslim | 14 |  |  | 28.0 |  |  |  |
| Buddhist | 1 |  |  | 2.0 |  |  |  |
| Marital Status |  |  |  |  |  |  |  |
| Married | 35 |  |  | 70.0 |  |  |  |
| Unmarried |  | 13 |  |  | 26.0 |  |  |
| Separated | 2 |  |  | 4.0 |  |  |  |
| Education |  |  |  |  |  |  |  |
| Literate | 43 |  |  | 86.0 |  |  |  |
| Primary | 13 |  |  |  | 26.0 |  |  |
| Secondary |  | 13 |  |  |  | 26.0 |  |
| Informal | 9 |  |  |  | 18.0 |  |  |
| Bachelor | 5 |  |  |  | 10.0 |  |  |
| Higher Secondary | 3 |  |  |  | 6.0 |  |  |
| Illitrate |  | 7 |  |  |  | 14.0 |  |
| Family Type |  |  |  |  |  |  |  |
| Joint |  | 37 |  |  |  | 74.0 | Nuclear |
|  |  |  | 16.0 |  |  |  |  |
| Single |  | 5 |  |  |  | 10.0 |  |
| Occupation |  |  |  |  |  |  |  |
| Job Holder |  | 14 |  |  |  | 28.0 |  |


| Business | 11 |  | 22.0 |  |
| :--- | :---: | :---: | :---: | :---: |
| Labor |  | 10 |  | 20.0 |
| Unemployed |  | 8 | 16.0 |  |
| Agriculture | 1 | 6 | 12.0 |  |
| Student |  |  | 2.0 |  |
| Non-Injectable | 50 | 100.0 |  |  |
| Yes |  |  | 64.0 |  |
| Injectable |  | 32 | 36.0 |  |
| Yes | 18 |  |  |  |
| No |  |  |  |  |

## Table 2: Gender, Caste, Religion and Ethnicity of Respondents n=50

Table 2 shows most of the respondents were Janjati $29 \%$ followed by Chhetri $22 \%$, Brahmin 8\%, Thakuri $8 \%$ \& Dalit 4\%. Most of the respondents were Hindu $70 \%$ followed by Muslim $28 \%$ \& Buddhist $2 \%$. Most of the respondents are married $70 \%$ followed by unmarried $26 \%$ \& separated $4 \%$.

Majority ( $86 \%$ ) of respondents are literate were primary $26 \%$, secondary $26 \%$ followed by informal $18 \%$, bachelor $10 \%$ \& higher secondary $6 \%$.

It seems that most of the respondent $74 \%$ were from joint family followed by $16 \%$ Nuclear \& $10 \%$ Single. Among all respondents $28 \%$ had maintained their income source through job, followed by business $22 \%$, labor $20 \%$, Agriculture $12 \%$ where as $16 \%$ are unemployed \& $2 \%$ are Students. $100 \%$ respondentswere using non injectable drug where $64 \%$ respondents were also using injectable drug.

## Part II: Knowledge Related HIV \& AIDS

| Variables | Frequency |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: |
| Disease |  |  |  |  |
| Communicable | 29 |  | 58.0 |  |
| Non- Curable |  | 10 |  | 20.0 |
| Fatal |  | 8 |  | 16.0 |
| Don't Know |  | 3 |  | 6.0 |
| Programme on HIV |  |  |  |  |
| Yes |  | 28 |  | 56.0 |
| Less than 1 day | 17 |  | 34.0 |  |
| 1 to 2 day | 7 |  | 14.0 |  |
| More than 2 days | 4 |  | 8.0 |  |
| Heath Institution | 24 |  | 48.0 |  |
| Rehab Center |  | 4 |  | 8.0 |
| No |  | 22 |  | 44.0 |
| Harm Reduction Programme |  |  |  |  |
| Yes |  | 3 |  | 6.0 |
| Health Person |  | 3 |  | 6.0 |
| No |  | 47 |  |  |
| Symptoms * |  |  |  |  |
| Fever |  | 30 |  | 62.5 |
| Weight loss more than $10 \%$ | 29 |  | 60.4 |  |
| Common cold more than 1 month | 21 |  | 43.8 |  |
| Uncurable wound | 20 |  | 41.7 |  |
| Depression |  | 7 |  | 14.6 |
| Diarrhea | 3 |  | 6.2 |  |
| Don't know |  | 13 |  | 27.1 |
| Common Disease* |  |  |  |  |
| Hepatitis | 17 |  | 34.0 |  |
| Tuberculosis |  | 15 |  | 30.0 |
| Typhoid | 4 |  | 8.0 |  |
| Skin Problem |  | 2 |  | 4.0 |
| Prolonged Diarrhea | 1 |  | 2.0 |  |
| Don't Know |  | 15 |  | 30.0 |

Multiple Response *

## Table 3: Knowledge on HIV \& AIDS, Programme, Symptoms \&Common disease $\mathbf{n}=50$

Table 3 shows that out of total respondents $58 \%$ respondent represent that HIV is communicable disease, followed $20 \%$ as a non- curable disease,
$16 \%$ as a fatal disease while $6 \%$ reported they don't know about HIV. Among all respondents $56 \%$ were involve in HIV programme at different
session \& at different place where as $44 \%$ were not involve in any programme related to HIV. It also shows that majority $94 \%$ didn't know about harm reduction programme while only $6 \%$ were known about harm reduction programme. $62.5 \%$ respondent said fever is common symptoms
followed by $60.4 \%$ weight loss , $43.8 \%$ common cold, $41.7 \%$ uncurable wound, $14.6 \%$ depression, \& $6.2 \%$ diarrhea. Similarly, $34 \%$ of respondents believed hepatitis as a common disease in HIV infected person.

| Variables ${ }_{\text {Transmission* }}$ Frequency $\quad$ Percentage |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| Unsafe sexual contact |  | 50 |  |  | 100.0 |
| Intravenous drug use |  | 50 |  |  | 100.0 |
| Unsafe blood transfusion | 47 |  |  | 94.4 |  |
| HIV infected mother to child | 30 |  |  | 60.0 |  |
| Breast feeding by infected mother | 15 |  |  | 30.0 |  |
| Don't know |  | 1 |  |  | 2.0 |
| High Risk Behavior* |  |  |  |  |  |
| Multiple Sex Partner |  | 48 |  |  | 96.0 |
| PWID |  | 48 |  |  | 96.0 |
| Migrant worker | 45 |  | 90.0 |  |  |
| Female Sex worker | 35 |  |  | 70.0 |  |
| Men Sex with Men | 23 |  |  | 46.0 |  |
| Health worker |  | 21 |  |  | 42.0 |

## Multiple Response *

## Table 4: Knowledge on Modes of HIV Transmission n=50

Table 4 shows majority of respondent told that major way of HIV \& AIDS transmission is unsafe sexual contact $100 \%$, same as intravenous drug use $100 \%$, followed by unsafe blood transfusion $94.4 \%$, mother to child $60.0 \%$ \& breastfeeding $30.0 \%$ while $2.0 \%$ don't know about transmission.

While $96.0 \%$ respondents believed high risk behavior of HIV transmission is person with multiple sex partner \& people living with using intravenous drugs.

| Variables | Frequency |  |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Activities don't transmit HIV* |  |  |  |  |  |
| Hand Shaking |  | 50 |  |  | 100 |
| Hugging | 45 |  |  | 97.8 |  |
| Sharing food from same plate | 41 |  |  | 89.1 |  |
| Contact with sweat \& urine | 38 |  |  | 82.6 |  |
| Kissing | 37 |  | 80.4 |  |  |
| Swimming in same pool | 4 |  |  | 8.7 |  |
| Using same comb \& towel | 3 |  |  | 6.5 |  |
| Window period |  |  |  |  |  |
| Don't know |  | 40 |  |  | 80.0 |
| 3 month | 6 |  |  | 12.0 |  |
| 3 to 6 month |  | 2 |  |  | 4.0 |
| 6 month | 2 |  |  | 4.0 |  |

## Multiple Response *

## Table 5: Knowledge on Modes of HIV Transmission

Table 5 shows, $100 \%$ respondents told hand shaking with infected person doesn't transmit HIV. Among all respondents, $80 \%$ didn't know about window period of HIV.

| Variables Frequency | Percentage |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Preventive methods of HIV \& AIDS* |  |  |  |  |  |
| Avoiding sharing needles \& syringe | 50 |  |  | 100 |  |
| Use of condom | 50 |  |  | 100 |  |
| Single sex partner | 48 |  |  | 96.0 |  |
| Carefully check the blood before transfusion 44 |  |  | 88.0 |  |  |
| Preventive measure for PWID |  |  |  |  |  |
| Avoiding sharing needles \& syringe | 50 |  |  | 100.0 |  |
| Sharing Needles \& Syringe |  |  |  |  |  |
| Yes | 14 | 28.0 |  |  |  |
| Sometime |  | 7 |  |  | 14.0 |
| Don't remember | 7 |  |  | 14.0 |  |


| Less than 10 | 7 |  |  | 14.0 |
| :---: | :---: | :---: | :---: | :---: |
| More than 10 |  | 7 |  | 14.0 |
| No | 36 |  | 72.0 |  |
| Method used to prevent HIV \& AIDS |  |  |  |  |
| Condom | 50 |  | 100.0 |  |
| Use of condomAlways | 27 |  | 54.0 |  |
| Never |  | 15 |  | 30.0 |
| Seldom | 7 |  | 14.0 |  |
| Never done sex | 1 |  | 2.0 |  |

Table 6 : Knowledge on Prevention of HIV \& AIDS

Table 6 shows $100 \%$ respondents believed use of condom helps to prevent HIV \& AIDS transmission. Similarly, $54.0 \%$ always used condom with his/her sexual partner, $30.0 \%$ never used condom while $14 \%$ seldom used condom during sexual contact.

| Variables | Frequency |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: |
| Cure for HIV |  |  |  |  |
| No |  | 42 |  | 84.0 |
| Yes |  | 6 |  | 12.0 |
| Don't know |  | 2 |  | 4.0 |
| Place for Test* |  |  |  |  |
| Government Hospital |  | 46 |  | 92.0 |
| Private |  | 37 |  | 74.0 |
| Family planning center | 35 |  | 70.0 |  |
| Rehab |  | 23 |  | 46.0 |
| INF |  | 4 |  | 8.0 |
| Don't know |  | 4 |  | 8.0 |
| Place for HIV Treatment |  |  |  |  |
| Government Hospital |  | 33 |  | 66.0 |
| Any health institution |  | 4 |  | 8.0 |
| Private Hospital | 2 |  | 4.0 |  |
| INF |  | 1 |  | 2.0 |
| Don't Know |  | 10 |  | 20.0 |

Multiple Response *
Table 7: Knowledge on Treatment of HIV \& AIDS. $\mathrm{n}=50$

Table 7 represents that majority $84 \%$ respondents knew that HIV \& AIDS can't be cured. Majority $(92.0 \%) \& 66.0 \%$ respondents told that place for HIV test \& treatment is governmental hospital respectively.

|  |  |  |  | $\mathrm{n}=50$ |
| :---: | :---: | :---: | :---: | :---: |
| Variables Frequency |  |  |  |  |
| Medicine |  |  |  |  |
| Yes |  | 14 |  | 28.0 |
| Heath Person |  | 11 |  | 22.0 |
| Heath Institution | 11 |  | 22.0 |  |
| Peer |  | 3 |  | 6.0 |
| Mass Media |  | 3 |  | 6.0 |
| No |  | 36 |  | 72.0 |
| Duration of treatment * |  |  |  |  |
| Lifelong | 25 |  | 51.0 |  |
| Up to sign \& symptoms disappears | 3 |  | 6.1 |  |
| 1 yr . |  | 3 |  | 6.1 |
| 5 yrs . |  | 1 |  | 2.0 |
| Don't know |  | 19 |  | 38.8 |

## Multiple Response *

Table 8: Knowledge on Treatment of HIV \& AIDS

Table 8 represents out of 50 respondents, $28.0 \%$ knewabout ARV among them $22 \%$ knew through health person \& health institution, $6.0 \%$ through peers \& mass media. More than half ( $51.0 \%$ ) of respondents knew about period for talking medicine of HIV \& AIDS is lifelong.
$\mathbf{n}=\mathbf{5 0}$

| Variables | Frequency |  | Percentage |
| :--- | :---: | :---: | :---: |
|  |  |  |  |
| Source of information * |  | 47 |  |
| Peers |  | 43 |  |
| Mass Media | 33 |  |  |
| Programme about HIV | 15 |  | 66.0 |
| Health Personal |  | 7 | 30.0 |
| Rehab |  | 6 | 86.0 |
| Book |  |  | 14.0 |

## Multiple Response *

Table 9: Source of Information on HIV \& AIDS

Table 9 shows majority $94.0 \%$ respondents knew about HIV \& AIDS through peers, followed by $86.0 \%$ through mass media, $66.0 \%$ through programme about HIV, $30.0 \%$ through health personal, $14.0 \%$ rehab \& $12.0 \%$ book.

## Discussion

Regarding the knowledge of HIV \& AIDS, more than half $58.0 \%$ told that HIV \& AIDS is communicable disease. Almost $56.0 \%$ of respondents had involved in educational programme on HIV \& AIDS. Only $6.0 \%$ of respondents knew about harm reduction programme. In regarding to disease most common symptoms $62.5 \%$ of respondents answered fever, similarly about $34.0 \%$ of respondents believed hepatitis as a common disease that occur in people infected with HIV \& AIDS. Different than present study, cross sectional survey by Baifeng et all (2016) stated that $93.4 \%$ had HIV \& AIDS knowledge[13].

In present study $100 \%$ respondents told hand shaking with infected person doesn't transmit HIV followed by $97.8 \%$ by hugging, $89.1 \%$ sharing food from same plate, $82.6 \%$ through contact with sweat \& urine of infected person, $80.0 \%$ through kissing. Similar study by Gaashet all 2003, most of the respondents believed that HIV\& AIDS could also spread through handshake ( $82.22 \%$ ), eating with the victim or sharing cups \& utensils with him ( $64 \%$ ), or use of fomites ( $52 \%$ ). Only a few had the ( $4.67 \%$ ) knowledge that sharing toothbrushes orblades of patients could transmit the infection to others; the majority ( $76.22 \%$ ) was ignorant while a sizeable proportion ( $19.11 \%$ ) did not comment at all [14].

In present study $96.0 \%$ respondents believed high risk behavior of HIV transmission is person with multiple sex partner \& people living with using intravenous drug. Among all respondents (i.e.50), $80 \%$ didn't know about window period of HIV. Similar study by Gupta P et all 2013 highrisk groups, $29.4 \%$ girls and $32.7 \%$ boys opined that prostitutes were high-risk group for HIV/AIDS followed by adolescents and homosexuals ( $23.5 \%$ girls and $22.1 \%$ boys; $23.5 \%$ girls and $20.3 \%$ boys, respectively). Only less than $1.0 \%$ girls and $4.4 \%$ boys felt that truck drivers were highrisk group for HIV/AIDS[15].
In relation to HIV \& AIDS prevention most of the respondent had knowledge about preventive way of HIV as avoiding sharing needles \& syringe \& use of condom was $100 \% \& 98.0 \%$ respectively. Cent percent respondents knew the preventive way of HIV transmission on PWID. Among all respondents, $28.0 \%$ respondents told that they used to share needle \& syringe. All respondents believed use of condom helps to prevent HIV \& AIDS transmission. Similarly, 54.0\% always used condom with his/her sexual partner, $30.0 \%$ never used condom while $14 \%$ seldom used condom during sexual contact. A snowball sample of 1127 eligible injection drug user by Chikovaniet., all (2011) shows that majority of IDUs had knowledge about how HIV is transmitted and how
its transmission can be prevented. Most ( $99.4 \%$ ) knew that sharing syringes increases the risk for contracting HIV; $97 \%$ reported that they could get new, unused syringes when needed; and $94.9 \%$ mentioned drug store as a prime source of syringes. Similar study conducted in 2006/7 with a convenience sample of 295 illicit drug users in Rio de Janeir by Bertoni.N et all (2011) almost $40 \%$ of drug users reported having never used condoms and more than $60 \%$ reported not using condoms under the influence of substances. Most drug users ( $80.6 \%$ ) correctly answered that condoms make sex safer, but incorrect beliefs are still common (e.g. nearly $44 \%$ believed HIV can be transmitted through saliva and $55 \%$ reported that HIV infection can be transmitted by sharing toothbrushes), with significant differences between drug users who had and who had not been tested for $\operatorname{HIV}[16,17]$.

In present study regarding the test, cure \& treatment majority $84 \%$ respondents knew that HIV \& AIDS can't be cured. $92.0 \%$ \& $66.0 \%$ respondents told that place for HIV test \& treatment is governmental hospital. Similarly $28.0 \%$ respondents knew about ARV through health person $(22.0 \%)$, health institution $(22.0 \%)$, peer $(6.0 \%) \&$ mass media $(6.0 \%)$. More than half ( $51.0 \%$ ) of respondents knew about period for talking medicine of HIV \& AIDS is lifelong. In similar study by Gupta $P$ 2013, about treatment of HIV/AIDS, $36.3 \%$ girls and $43.4 \%$ boys said that it was a curable disease and $42.2 \%$ girls and $36.3 \%$ boys said that it was not curable. Similar percentage of girls and boys were not sure whether it was curable [15].

## Conclusion

In current study majority of the respondent had knowledge about HIV \& AIDS, major way of transmission \& the preventive measures of HIV \& AIDS. The overall findings of the study showed that most of the respondents had less knowledge \& misconceptions regarding mother to child transmission \& about breast feeding by infected mother. It may be due to low literacy rate of respondents, lack of effective educational programme\& training.

## Conflicts of Interest

The authors do not have conflicts of interest regarding this publication.

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