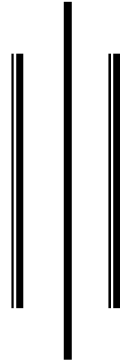


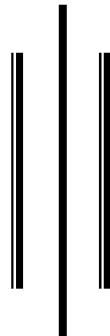
**KNOWLEDGE AND ATTITUDES ON STIs AND HIV/AIDS  
AMONG SECONDARY SCHOOL STUDENTS**

**(A Case Study of Shree Khand Devi Secondary School, Satakhani, Chaurase, Surkhet)**



**Submitted By**

**Chandra Prakash Acharya**



**A Dissertation Submitted To**

**Central Department of Population Studies,**

**Faculty of Humanities and Social Sciences**

for the partial fulfillment of Master's Degree of Arts in Population Studies

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**NOVEMBER, 2009**

**Central Department of Population Studies**  
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**Kirtipur, Kathmandu, Nepal**

## **RECOMMENDATION LETTER**

This is to certify that **Mr. Chandra Prakash Acharya** has worked under my supervision and guidance for the preparation of the dissertation entitled **Knowledge and Attitudes on STIs and HIV/AIDS among Secondary School Students (A Case Study of Shree Khand Devi Secondary School, Satakhani, Chaurase, Surkhet)** for the partial fulfillment of Master's Degree of Arts in Population Studies. To the best of my knowledge, this study is original based on primary data and carries useful information in the field of STIs and HIV/AIDS.

Therefore, I recommend this dissertation for evaluation to the dissertation committee.

---

**Prof. Dr. Ram Sharan Pathak**  
(Supervisor)

November, 2009

**Central Department of Population Studies  
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Kirtipur, Kathmandu, Nepal**

## **APPROVAL SHEET**

This dissertation on entitled **Knowledge and Attitudes on STIs and HIV/AIDS among Secondary School Students (A Case Study of Shree Khand Devi Secondary School, Satakhani, Chaurase, Surkhet)**, submitted by **Chandra Prakash Acharya** has been approved as partial fulfillment of the requirements for the Master's Degree of Arts in Population Studies.

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Date: 01-11-2009

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November, 2009

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This dissertation is submitted to the Central Department of Population Studies, Faculty of Humanities and Social Science, Tribhuvan University, for the partial fulfillment of Master's Degree of Arts in population studies. This study has been carried out with the help of proper guidance and continuous supervision of respected **Prof. Dr. Ramsharan Pathak** of CDPS. Therefore, I am very much indebted to him for his help in providing me with his encouragement and suggestions during the work which made this work simple and possible.

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Thank you

**Chandra Prakash Acharya**

November, 2009

## ABSTRACT

Sexually transmitted infections (STIs) and HIV/AIDS are the major challenges for world health to emerge in 21<sup>st</sup> century. The aids epidemic may be the most devastating health disaster in human history. HIV/AIDS has become major as well as critical public health issue particularly in Africa facing the worst effect of the epidemic. At least 45 million people are now living with HIV in the world. An estimated 5.1 million people were newly infected with HIV by the end of 2008. Among them 95 percent in Sub-Saharan Africa, eastern Europe and Asia.

The study on “knowledge and Attitudes on STIs and HIV/AIDS among secondary school students in Shree Khand Devi secondary school’s students in Satakhani, Chaurase, Surkhet” has been carried out by using primary data collected from one secondary school of Satakhani VDC. The main objectives of the study are to evaluate the knowledge and perception about the modes of transmission and method of prevention of STIs and HIV/AIDS. The sample size is 150 students of the selected school and they are selected by purposive sampling method. Out of the total sample size of 150 students, 78 are boys and 72 are girls. They are from both class nine and ten.

The average age of respondents is 15 years and their average family size is 5 to 10 member. About 16 percent respondent’s father’s have educational level of S.L.C and above, whereas the major occupation of the respondent’s parent’s (79.5% father and 93.2% mother) are engaged in agricultural occupation. The majority of the respondents (38.7%) are Brahmin, Magar and Chhetri constitute second and third rand respectively. Majority of the respondents (93.3%) are unmarried. Almost respondents (89.3%) have heard about STIs. Large proportion of the respondents (97%) stated that sexual contact with infected person is the most important mode of transmission of STIs and all of the respondents reported that use of condom during sexual intercourse is the most important way of prevention from STIs.

All of the respondents reported that they have heard about HIV/AIDS because of the electronic media and their curriculum also includes about HIV/AIDS. All of the respondents know the ways of transmission of HIV/AIDS is sexual contacts. All of the respondents reported that the use of condom is the most important and effective method of prevention of HIV/AIDS. Most of the respondents (96.7%) reported that the commercial sex workers are vulnerable to HIV/AIDS in the society. Majority of the respondents have accepted AIDS infected persons all of them die which is accounted for (69.3%).

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## ACRONYMS AND ABBREVIATIONS

AIDS	:	Acquired Immune Deficiency Syndrome
CBS	:	Central Bureau of Statistics
CDPS	:	Central Department of Population Studies
FHI	:	Family Health International
GOs	:	Government Organizations
HIV	:	Human Immunodeficiency Virus
ICPD	:	International Conference on Population and Development
IDUs	:	Injecting Drug Users
IEC	:	Information, Education and Communication
INGO	:	International Non-Governmental Organization
IVDUS	:	Intravenous Drug Users
MOH	:	Ministry of Health
NAC	:	National AIDS Committee
NCASC	:	National Centre for AIDS and STDs Control
NDHS	:	Nepal Demographic and Health Survey
PRB	:	Population Reference Bureau
RH	:	Reproductive Health
SAARC	:	South Asian Association for Regional Co-operation
SLC	:	School Leaving Certificate
STDs	:	Sexual Transmitted Diseases
STIs	:	Sexually Transmitted Infections
SWs	:	Sex Workers
T.U.	:	Tribhuvan University
UNAIDS	:	The Joint United Nations Programs on HIV/AIDS
UNFPA	:	United Nations Fund for Population Activities
UNICEF	:	United Nations Children Fund
USA	:	United State of America
VDC	:	Village Development Committee
WHO	:	World Health Organizations

# CHAPTER I

## INTRODUCTION

### 1.1 Background of the Study

Adolescence is a period of transition from childhood to adulthood in which physical, social, psychological, emotional and behavioral changes take place. It is also known as "the teenage years". This is also a period of a "milestone" for everyone. This is a time of preparation for undertaking greater responsibilities. Adolescents health is the outcome of several factors such as socio-economic status, environment in which they live and grow, good guidance. UNFPA, UNICEF and WHO define "young people" as a between the ages of 10 to 24, "youth people" between the ages of 15-25 and "Adolescents" as the population 10-14 are early and 15-19 as late-adolescents (UNFPA, 1998).

Psychologically, adolescence is the age when an individual becomes integrated into the society of adults or the age when the child no longer feels that is below the level of his/her elder but equal at least insight this integration into adult socially has many aspects. More or less linked with puberty and maturity. It also includes very profound intellectual changes these intellectual transformations typical of the adolescents thinking unable a person not only to achieve integration into the social relationship of adults, but also develop the phenomena of responsibility and feeling of being a part of society.

The diseases that can be transmitted from one person to another mainly through sexual contact are known as sexually transmitted infection (STI) including STDS and HIV/AIDS. Some STIs can also be transmitted by other routes such as blood, semen, vaginal secretion and breast feeding.

Human Immunodeficiency Virus (HIV) is an infection agent that cause Acquired Immune Deficiency Syndrome (AIDS) which destroy immune system of the body and loses body's natural ability to fight against various

diseases. The infected person may lose weight and become ill with disease like persistent, severe diarrhea, fever, skin disease, pneumonia, TB or tumor. At this stage, he or she developed AIDS (WHO). Therefore, AIDS is the last stage or life threatening stage of HIV infection. The full form of AIDS is:

- A - Acquired = not born with
- I - Immune = body defense system
- D - Deficiency = not working properly, and
- S - Syndrome = group of signs and symptoms

The adolescents are at greater risk of STI/HIV infection due to ignorance, risk behaviour and lack of information and services, menstrual hygiene the main purpose of reproductive and sexual health education is to make young people aware of the various mental physical and emotional changes at the period of adolescence. Further more, they should emphasize on providing knowledge about the disadvantages of early sexual intercourse especially unsafe sex.

AIDS (Acquired Immune deficiency Syndrome) is not one disease, but a set of diseases (Upreti, 1998) caused by the human immune deficiency virus (HIV) that can breakdown the today's immune system and lead to total infections and some forms of cancer. Human immune deficiency virus kills by weakening the boys immune system until it can no longer fight infection. Opportunistic infections are illness such as pneumonia meningitis, some cancers, tuberculosis (TB) or other parasitic, viral, and fungal infections that occur when the immune system is weakened (PRB, 2006).

Acquired Immune Deficiency (AIDS) was first recognized internally in 1981. An estimated 40 million people are now living with HIV in the world at the end of 2005. An estimated 4.9 million people were newly infected with HIV including 540000 children. Each day around 14000 people world wide become newly infected with HIV (PRB, 2006). The HIV/AIDS pandemic is

one of the most serious health problem in the world today because of high case totality rate and lack of curative treatment of vaccines. HIV is spread through blood, semen, vaginal secretions and breast milk, the most common method of transmission is unprotected sexual intercourse with an HIV-positive partner.

### **Stages of HIV/AIDS**

Most of the people have misunderstanding that HIV and AIDS are same but it has some differences. HIV is virus, but AIDS is the syndramatic stage of different disease, so we can define it is stages.

### **Window Period (0.3 or 6 months)**

In these stages, people may be infected but we can't diagnose by blood test. It is very dangerous period for transmission. In this period, the immune power starts to fight against HIV.

### **Carrier Stages (3-6 months or 0-10 years)**

In this stage, we can see HIV virus in affected blood test. But the infected person is as like as general as general or, healthy people. At that time, the virus does not show syndrome.

### **AIDS**

AIDS is the last stage of HIV. In this stage, the patients show different syndromes of different diseases for example: diarrhea, fever, headache, etc. at last the patient is to be died.

### **Symptoms of AIDS**

- Weight loss more than 10 percent of patient's body,
- The patient suffers from continuous coughing, diarrhea and mid fever.
- Sows are found in his/her tongue and sexual organs.
- A few patients of this disease may develop enlarged lymph nodes in groins neck and axilla.

- The patient gradually loses all natural defense mechanisms.
- Red spots are found in his/her body.
- The HIV virus passes to the brain through the blood which its cells as a result patient becomes mentally abnormal.

**The ways to prevent AIDS are:**

- Avoid sex with prostitutes and multiple partners
- Use of condom
- Avoid injections and blood transfusion from infected persons.
- Avoid needles used by infected persons
- Check the blood before transfusion
- Infected person should not give birth to babies
- Don't use drugs
- Keep contact with health workers to get proper service.
- Get more information on sexually transmitted disease STIs and AIDS.

**1.2 Statement of the Problem**

The first HIV infection in Nepal was identified in 1988. Only 4 cases (3 male and 1 female) were reported among 9016 samples tested in that year (Bista, 2002). Since then, HIV/AIDS has been increasing each year. The potential for the spread of HIV in Nepal is large because of extensive use of commercial sex workers, high rates of sexually transmitted diseases, low level of condom use and pockets of intravenous drug users. As of April 30, 2005, a total of 876 AIDS and 4904 cumulative cases of HIV infection were reported to the Ministry of Health, National Center for AIDS and STD Control. The death rate due to STIs and HIV/AIDS has also been increasing from 142 in 2000 to 273 in 2005, November in Nepal ([www.ncase.gov](http://www.ncase.gov)).

Various researches were conducted on knowledge and attitude towards STIs and HIV/AIDS by many researchers. Most of them are found to be urban



basis. Only limited research work are done using the data from remote rural area of Nepal. From a policy-making point of view, the information each and every part of the country is given an equal importance.

In this case study, the study area lies in remote rural areas of Surkhet district. There were not conducted any research activity and had not lunched any awareness programs. Most of the people are illiterate. It lead them get married at early age without having basic sex education. In the study area, most of the people are depend upon the agriculture and they also went in India for the purpose of employment. When they return they bring not only money but also they carry HIV/AIDS so in the study area. HIV/AIDS is the burning problem. Many people are illiterate so they don't know about the mode of transmission of HIV/AIDS and method of prevention.

STIs particularly HIV/AIDS is a burning and growing problem allover the world as well as Nepal. In most of the Nepalese societies, adolescents particularly in the school age have to face pressure to engage in sexual activities. Adolescents are more vulnerable; they have high risk increasing and transmitting STIs including HIV/AIDS. There have not conducted any studies regarding knowledge and attitude towards STIs and HIV/AIDS among adolescents in Satakhani VDC of Surkhet district. However, adolescents have little access to information about their physical, mental, social, emotional and behavioral change as well as they have less access to knowledge and information about reproductive health including contraceptive, STIs and HIV/AIDS. So that they are facing various problems i.e. early pregnancy, frequent pregnancies, unplanned birth, unsafe abortion, infected with STIs and HIV/AIDS etc.

### **1.3 Objectives of the Study**

The main objective of this study is to find out the knowledge and attitude on STIs and HIV/AIDS among secondary school adolescents. The specific objectives are as following:

- To analyze the knowledge on HIV/AIDS and STIs among adolescent by their background characteristics,
- To identify the knowledge on modes of transmission and methods of prevention STIs and HIV/AIDS among the respondents,
- To assess their attitude and understanding about STIs and HIV/AIDS.

#### **1.4 Significance of the Study**

- In Nepal, adolescents constitute more than one fifth (23.62) of the total population (CBS 2001) and the number of adolescents population will be continue to grow due to result of high population momentum. Adolescents and youth are most vulnerable group among the total population. According to recent estimates of UNAIDS and WHO (HIV/AIDS, the global pandemic). Most of the adolescents are derived by right of education illiteracy feel them get married early age with out having basic sex and health education. They start sexual intercourse and activities, before prepared, activities are the main causes of spreading STIs and HIV/AIDS.
- Nepal is developing country with low economic status most people are far from educational opportunity; they have not sufficient knowledge about HIV/AIDS. There is no effective programme. Which can make the people aware and playing vital role to prevent from STIs and HIV/AIDS.
- Generally, the adolescents are vulnerable; they have at high risk of transmission of STIs and HIV/AIDS. Because of this research is directly based on school adolescents. It will be help to know more about the level of knowledge and attitudes, views on STIs, and HIV/AIDS at Shree Khand Devi Secondary School, Satakhani, Surkhet. More over, it has more significance in this particular areas, because of this type of studies has never been conducted.

- Eventually, because of the burning issue, this has become more important. This study represents all hilly region school adolescents so finding of this study will help the policy makers in formulating the preventive measures regarding to STIs and HIV/AIDS in similar areas of the nation. This study will help to understand the importance of knowledge, attitudes on STIs, and HIV/AIDS among school adolescent's parents and community.

### **1.5 Limitation of the Study**

This study is consists of the knowledge and attitude towards adolescent STIs and HIV/AIDS among secondary school students of age between 13-18 years. This study has been limited within only one selected schools of Surkhet district (Shree Khand Devi Secondary School). Every study has their own limitations. Therefore, this study have own limitation they are as follows:

- This study is based on primary data about knowledge and attitude towards adolescent STIs and HIV/AIDS.
- This study is limited within 1 schools of Surkhet district, therefore, the findings may not be generalized for all over the nation.
- This study takes account of the school adolescents, so the study does not represent the view of non-school adolescents.
- Due to the causes of time resources, the sample populations are taken from only one secondary level students of south, east part of Surkhet district.
- This study is taken among limited number of respondents i.e. 150 students from one school.
- The study does not cover more than the objectives of the study.

## **1.6 Organization of the Study**

The study is organized into six chapters. The first chapter is introductory that includes background of the study, statement of the problem, objectives, significance, limitation and organization of the study. In the second chapter, review of literature and conceptual framework are presented. The third chapter deals with methodology, which includes selection and introduction of the study, sample size and sampling technique, questionnaire design, method of data collection, data processing, data analysis and interpretation.

The socio-economic and demographic characteristics of respondents are described in the fourth chapter. In the fifth chapter, the knowledge and attitude on STIs and HIV/AIDS of the respondents has been described. At last, sixth chapter presents the summary, conclusions and recommendations.

## **CHAPTER II**

### **LITERATURE REVIEW**

This chapter deals about the available literatures on sexual behaviour, sexually transmitted infection HIV/AIDS, history of more vulnerable groups of acquiring STIs like syphilis, gonorrhoea and HIV/AIDS etc. were reviewed to generate the adequate relationship between the variables and to share the other opinion on the issued statement.

#### **2.1 HIV/AIDS and STIs, in the World**

Adolescence is a period of transition from childhood to adulthood in which physical and behavioral changes take place. It is also known as the teenage years. This is also a period of a Milestone for everyone. This is a time of preparation for undertaking grater responsibilities. Adolescents health is the outcome of several factors such as socio-economic status, environment in which they live and grow, good guidance, and family/community. UNFPA, UNICEF and WHO define young people as a between the ages of 10 and 24, youth as those aged 15-25, and adolescents as the population aged 10-19 years. Adolescents aged 10-14 is known as early adolescents and 15-19 as late adolescents (UNFPA, 1998).

Adolescence is the second decade of life and it is a period of rapid development. Major physical changes take place and differences between boys and girls are accounted (WHO, 1998). Since about one third of the worlds population are between the age of 10 and 24 with vast majority living in developing countries. They have not received specific attention in most population and health research and programs. During the past decade young people and their health needs have been the subject of greater attention worldwide. Especially, the issue of adolescent reproductive health received global attention after the international conference on population and development (ICPD) 1994 (CBS, 2003).

Adolescent are more vulnerable than adults to unplanned pregnancies, STIs and HIV/AIDS. It has been documented that although premarital sex is less common in the Asia region, it is clearly on the rise. It has been observed that when adolescents become sexually active, they tend to have multiple partner and use condoms and other contraceptive inconsistently furthermore, younger women are more vulnerable to forced sex and sex in exchange for gifts and money, with increasing risk of contracting STIs, including HIV/AIDS (Ashford, 2001).

It has been found that while women, in general, are more likely than men to be infected with HIV during unprotected vaginal intercourse prevalence of HIV infection among adolescent girls is strikingly high. Biologically young girls are vulnerable to the risk of HIV transmission because their genital tracts are not fully mature. Other biological, cultural and economic factors that make young girls particularly vulnerable to the sexual transmission of HIV. The vulnerability of adolescent girls of STDS including HIV/AIDS have a negative impact on the educational prospects as well as high rate of material death. The following factors influence the sexual an reproductive of adolescents in Asia and the pacific.

- Inadequate access to correct information.
- Availability of and access to youth friendly healthy services.
- Peer pressure and the erosion of the role of the family and
- Economic constraints (Gubhaju, 2002).

Sexual Transmitted Disease (STD) are among the most common health problems in the united states, and women experience a disproportionate amount of the burden associate with these illnesses, including complications sterility, prenatal infections, genital tract neoplasm, and possible death. Available date suggest that female to male transmission is less efficient than male to female transmission. Human mobility in the era of AIDS has dramatically increase the potential for the spread of HIV is now leading killer of person between the ager of 25 and 44 in the united states and similar western nation. It is the leading cause of adult death in many third world countries. (SAGE)

In Africa the HIV/AIDS epidemic could also bring a slowdown in socio-economic progress and an increase in couples desire for children (PRB, 2005).

STIs increase the likelihood of HIV transmission considerably, as well as having other reproductive health consequences such as chronic pain, infertility or life threaten entopic pregnancies. While data on STIs in developing countries are scare, particularly for young people. WHO estimates that at least a third of the more than 333 million new cases of curable STIs each year occur among people under age 25. Young people are also substantially more likely than adults to become re-infected after having been treated (UNFPA, 2003).

Almost a quarter of people living with HIV are under the age of 25 young people now represent half of all new cases. An estimated 6,000 young people are infected every day-one every 14 minutes. The majority are women and girls. In sub-Saharan Africa, 63 percent of those who were HIV positive in 2003 were between the ages of 15 and 24. In the Russian federation and other countries of Eastern Europe and Central Asia, more than 80 percent of those living with HIV are under the age of 30, a majority of them young men. In these regions, as well as in southeast Asia and China. HIV is spread primarily by drug infection and commercial sex works. One third of new cases of curable sexually transmitted infections every year are contracted by young people under 25 (UNFPA, 2005).

The AIDS epidemic may become the most devastating health disaster in human history. The disease continues to ravage families and communities throughout the world. In addition 25 million people who died of AIDS by the end of 2005 at least 40 million people are now living with HIV at the end of 2005. An estimated 4.9 million people were newly infected with HIV in 2005. But of the total HIV infected people, 95 percent are from the sub-Saharan Africa, Eastern Europe or Asia. In Southwest Asia, 74,00,000 are living with HIV and 480,000 are living with HIV and 480,000 have died from the AIDS (PRB, 2006).

## **2.2 The HIV/AIDS Situation in SAARC Countries**

The first HIV infection of South Asian region was reported in India in 1986. This means that the endemic was introduced in the region some what later than other parts of the world. The infection rates in South Asia are lower than Africa but the spread of HIV is rapid. However, current trends show that this region will be severally affected very soon. The epidemic in South Asia is newer and many countries are yet to develop a proper monitoring system. For this reason the estimates of HIV is south Asia are often made on the basis of inadequate information (Aryal, 2000).

The virus of HIV/AIDS was reported in India in 1986, and second goes to Pakistan 1986, Srilanka 1987, Nepal 1988, Bangladesh 1989 and Maldives 1991. The latest estimates show that about 5.1 million people were living with HIV in India in 2003. Serious epidemic are underway in several states. In Tamil Nadu, HIV prevalence of 50 percent has been found among sex workers while in each of Andra Pardesh, Karnataka, Maharastra and Hagland, HIV prevalence measured at antenatal clinic in the Manipur cities of Imphal and Chaurachmand has rose. Below 1 percent to over 5 percent with many of the women testing positive appearing to be the sex partners of male drug injections. Several factors look set to sustain Manipuri's epidemic, including the large proposition about 20 percent of female sex workers who inject drugs and the young ages of many injectors (UNAIDS, 2004).

Although the reported HIV cases are very small in Maldives, Maldives is highly vulnerable to the AIDS pandemic. A sustained rapid economic growth to 7.2 percent has exposed Maldives to the out side world. HIV/AIDS prevention and control activities are given higher national priority under the national AIDS council programme. The government of Srilanka established a national task force (NIF). In 1987 and a short term plan of action was formulated in July 1987. A multi sectoral, multidisciplinary national AIDS committee (NAC) first formed in 1988. NAC has four sub-committee on laboratory services and surveillance, HIV care and counseling legal and



ethnic issues on HIV/AIDS and information, education and communication (IFC ) functioning under it (Devkota, 2005).

### **2.3 HIV and STIs Situation in Nepal**

HIV/AIDS has been increasing since the first case was detected in 1988 in Nepal. Only 3 male and 1 female were detected of HIV infection for the year when it was diagnosed at first in the year 1988. Since the rate is increasing each year because of extensive use of commercial sex workers, high rates of sexually transmitted diseases, low use of condom, drug users etc. Nepal ranks sixth among Asian nations in absolute numbers of HIV positive persons considering existing open borders with India, the threat of HIV/AIDS in Nepal is tangible because of migrant working population in metros of India, lack job opportunities in Nepal, drug transfer and silk route. The main identified mode of HIV transmission in Nepal is heterosexual contact, primarily commercial sex workers and their clients. Intravenous drug users (HIV/AIDS), migrant workers. (UNAIDS, 2004).

The first case of AIDS in Nepal was reported in 1988. The National centre for AIDS and STD control (NCASC) of the Ministry of Health and Population has estimated an average of 70000 adult HIV-positive people in Nepal (NCASC, 2006 a). As of September 2006, a total of 1171 AIDS cases among the 7894 cases of HIV infection were reported to NCASC (NCASC, 2006 b). However, these figures are probably grossly under-estimated given the existing medical and public health infrastructure and limited HIV/AIDS surveillance system in Nepal. (NDHS, 2006).

The results of the IBBS conducted so far clearly indicate that the early concentrated stage and is driven by injecting drug use, commercial sex, and migration, findings from the last rounds of the IBBS conducted in 2005 among 1945 show that about 30 percent of male IDUS in Kathmandu (New ERA and SACTS, 2005a), Pokhara (New ERA and SACTS, 2005 b), Eastern Terai (New ERA and SACTS, 2005c), and western and far western Terai sub-regions (New

ERA and SACTS, 2005d) reported having sex with FSWS, and more than half do not use condoms when they have sex with FSWS. Similarly migrants who have sexual intercourse with sex workers in India have a higher risk of HIV infection, and only a few use condoms when they have sex with their spouses (New ERA and SACTS, 2006).

STIs prevalence among sex workers (SWS) is notably higher. Data from Pokhara, Kathmandu and Terai revealed the syphilis prevalence among SWS were 18.8 percent in Terai, 19 percent in Kathmandu and 13.8 percent in Pokhara clients of sex workers were found to have 5.3 percent syphilis. Similarly among family planning attendees, trichomoniasis was 6.0 percent, Chlamydia was 1.0 percent and HIV was 0.3 percent as per results of study conducted (UNAIDS. 2004).

As of October 2001, a total of 533 AIDS cases and 1564 cases of HIV infection were reported to the ministry of Health National center for AIDS and STD control (NCASE. 2001). However these figures are probably grossly underestimated given the current medical and public health infrastructure and limited HIV/AIDS surveillance system in Nepal. One estimated shows approximately 34000 cases of HIV/AIDS infection in Nepal (UNAIDS, 2004).

The national data as of December 31, 2004 reveals 4593 individual having HIV of which 846 have developed AIDS of the Total AIDS , cases 233 have died. HIV transmission is increasing in population of 14 to 49 years age groups. sex workers their clients seeking care for SITS and injecting tug users (IDUS) were reported having high rate of HIV. Remarkably, the number of house wives with HIV infection is increasing. It is though that HIV might have spread to them through their husbands who might have exposed to high-risk behaviours of HIV transmission. Given the high rate of HIV risk behaviours Nepal ranks in concentrated epidemic countries (NCASC, 2004).

According to Ministry of Health and Population, National Centre of AIDS and STD Control (NCASC) cumulative HIV/AIDS situation of Nepal as Jestha 2066 (in June, 2009) shows the following table.

Condition	Male	Female	Total	New Cases of This Month
HIV positives (including AIDS)	8345	4080	12425	390
AIDS (Out of the total HIV)	1445	599	2044	109

Source: NCASC, 2009.

#### Cumulative HIV infection by sub-group and sex

Condition	Male	Female	Total	New Cases of This Month
Sex Workers (SW)	6	802	808	13
Clients of SWs/STD	5448	143	5591	156
Housewives		2780	2780	127
Blood or organ recipients	28	10	38	0
Injecting Drug Users	2290	46	2336	41
Men having Sex with Men (MSM)	69		69	19
Children	441	278	719	34
Sub-group not identified	63	21	84	0
Total	8345	4080	12425	390

Source: NCASC, 2009.

## 2.4 Knowledge on STIs and HIV/AIDS

The NDHS 2006 show that 73 percent of women and 92 percent of men age 15-49 have heard of AIDS. Knowledge of AIDS varies by background characteristics and this is more evident among women than men. Since overall knowledge of AIDS among men is very high, there is little difference by background characteristics. (NDHS, 2006)

The level of awareness of AIDS is lower among older respondents, especially among respondents age 40-49, and among ever-married women and men. Respondents living in rural areas are less likely to know about AIDS than

urban residents. For example, 69 percent of rural women have heard of AIDS, compared with 91 percent of urban women. (NDHS, 2006)

In Nepal, knowledge of AIDS is much higher among men (72%) than women (50%). Although women's knowledge of AIDS is lower than men's the percentage of women who have heard of AIDS has nearly double in the last five years from 27 percent in 1996 (Pradhan et al., 1997). Two fifth of women and two thirds of men believe that there is a way to avoid HIV/AIDS. As level of education increase, respondents knowledge of AIDS also increases respondents who have passed their SLC (NDHS, 2001).

Regarding the STIs, 8.5% of the young people have knowledge of STIs, two third reported HIV/AIDS as the main type of STIs followed by syphilis (20%) and gonorrhoea (13%) (Pathak and Subedi, 2002).

Twenty percent among adolescents and about 26 percent among youth reported that they know how to avoid AIDS. The knowledge of protecting one for deadly sexually transmitted disease among the adolescent and youths shown by the data is far from satisfactory because these groups of population are considered to be highly vulnerable to AIDS exposure (Pant, 2001).

Young women and men age 15-24 are relatively more knowledge. the various modes of prevention than older respondents. for instance, about 35 percent of women and 65 percent of men age 40-49 mentioned that using condoms and limiting sex to our uninfected partner can reduce to risk of HIV/AIDS infection, compared with 65 percent of women both women and men is highest among never- married respondents and lowest among those divorce, separated or widowed (NDHS, 2006).

Education and wealth are strongly associated with AIDS awareness. Knowledge of AIDS is universal among women with SLC or higher level of education, compared with just over half of women with no education. Similarly, awareness is lowest among women living in the poorest households

and highest among women living in the wealthiest households. Knowledge of AIDS is also higher among women who have traveled away from their home, particularly among those who have been away for six months or more in the past 12 months (NDHS, 2006).

## **2.5 Major Routes of Transmission of HIV/AIDS**

It is presumed that the major routes of transmission for HIV/AIDS in Nepal remain heterosexual and through sexual contact. However, very little data exists to be able to clarify the extent of transmission in this route. Existing data indicates that the highest rates of infection are among injecting drug users and that IDUS as well as sex work contribute to a large and significant proportion of HIV transmission (Acharya, 2005).

The major mode of transmission of HIV in the country is heterosexual. Using that there are more than 60,000 people living with HIV/AIDS in Nepal at the end of 2003. By far the largest numbers of reported HIV infections come from men who have been clients of sex workers (57.2%) followed by injecting drug users (16.0%) HIV infection in Nepal mainly occurs in the younger age of 20 to 39 years. HIV/AIDS and STDS are emerging as a major threat to Nepalese socio-economic and health services. The following milestones in AIDS and STD prevention activities in Nepal.

- 1986 organization of STD/AIDS control committee.
- 1987/88 implementation of short-term plan.
- 1995 national policy on AIDS and STD prevention adopted.
- 1997-2001 strategic plan for HIV/AIDS prevention adopted.
- 2002 National AIDS council formed.
- 2002-2006 National strategy for HIV/AIDS prevention adopted
- 2004 STIs case management guidelines development (DOHS, Annual Report, 2003/04).

Studies conducted in main highway routes in different parts of the country indicate that transport workers (track drivers and their helpers) are also turning to one of the major population sub-group susceptible to HIV infection. Recent studies in the far western region suggest that transmission among infected migrant laborers returning home from India could also contribute largely to a rise in HIV infection. According to one policy assessment report, the epidemic has reached the concentrated stage and may be on the verge of spreading to the entire reproductive age population (Acharya, 2005).

Many Nepalese adults lack accurate knowledge about the ways in which the AIDS virus can and cannot be transmitted. Only 29 percent of women and 49 percent of men know that AIDS cannot be transmitted by mosquito bites. Relatively larger proportions of respondents (59 percent of women and 75 percent of men) are aware that a healthy looking person can have the AIDS virus. Similar proportions of women and men (58 percent of women and 77 percent of men) correctly believe that a person can not get the AIDS virus by touching someone who has AIDS. 45 percent of women and 63 percent of men correctly believe that a person cannot become infected by sharing food with a person who has AIDS (NDHS, 2006).

The potential for the spread of HIV in Nepal is larger because of extensive use of commercial sex workers, high rates of sexually transmitted diseases, low level of condom use and pockets of intravenous drug users. As of April 30, 2005 a total of 876 AIDS and 4904 cumulative cases of HIV infection were report to the ministry of Heath, National Centre for AIDS and STD control (Acharya, 2005).

### **2.5.1 Injecting Drug Users (IDUs)**

Number of ID users including heroin users in increasing all over Nepal. Currently in Kathmandu valley, HIV infections among IDUs are estimated at 67 percent (CREHPA, 2003). These studies show that the IDUs, both male and female are in their early 20s. The median age of IDUs at the times of their first

sexual encounter was 18 for males and 16 years for females. The study further shows that 89 percent of male and 81 percent of females had been sexually active (New Era, 2002).

Several of these research studies also indicate a very risky sex and drug taking behaviour of IDUs which makes them more susceptible towards HIV infection (CREHPA, 2002; New Era, 2002; FHI, 2002). In one of the study, two thirds of the IDUs reported being sexually active before the age 10. 80 percent of male IDUs had unprotected sex with their regular partner. The study also found low rate of condom use (FHI, 2002).

### **2.5.2 Commercial Sex Workers and their Clients**

Commercial sex workers are found all over Nepal but they tend to get concentrated in large cities, border towns, and truck routes and the Haat Baazar areas in the villages (New Era, 2002). Nepal's sex work is primarily street based though more recently concentration of sex workers is becoming more pronounced in the dance and cabin restaurants operating in cities of Kathmandu valley and Pokhara. The scale and magnitude of commercial sex work and trafficking in Nepal seem to be much larger than what is usually believed (New Era, 2002).

Poverty and economic hardship has been found to be the main factors for motivating most of the women to get involved in the sex work because they needed the money immediately and sex work was the only way out for them. Another study also shows that the reasons for the women to get involved in sex work are mainly related to financial issues such as need of money, poverty, unemployment and hunger etc. In addition to financial reasons, social reasons also appear to have much influence in pushing girls women into sex work (New Era, 2002).

### **2.5.3 The Migrant Workers**

Just as internal and external labour migration constitute the hidden or unrecognized dynamism of the real economy of Nepal. It is now being identified as the hidden and unrecognized dynamic of the spread of HIV/AIDS in the country (Acharya, 2005, 2002). According to 2001 census the country had 7,62,000 external and 14,00,000 internal migrants, male and female together. The western region has the highest proportion of external migrants working abroad. Migration to India will undoubtedly continue to increase in coming years. Many of these men are contracting HIV/AIDS in India and bringing it back to their wives in Nepal. A recent survey of men returning from Mumbai to Nepal revealed an HIV infection rate of 10 percent (MOH, 2003).

## **2.6 Prevention, Care and Treatment**

In this third decade of the epidemic, there is still neither a cure nor vaccine for AIDS life prolonging drugs have become more affordable and accessible, yet treatment is still largely unavailable to most people who need it in developing countries. As of June, 2005, out of the 605 million people needing treatment prolongs the lives of many AIDS patients. It does not cure AIDS. More than 50 HIV vaccine candidates have undergone clinical trials since 1987 and researchers continue to 1987 and researchers continue to develop strategies for improving defenses against the virus. Despite this progress, a safe and effective vaccine is years away (PRB, 2006).

HIV is transmitted in three ways: (a) through sexual contact; (b) through direct exposure to blood, primarily as a result of injecting drug use, blood transfusions, or unsafe injecting in health-care settings; and (c) from infected mother to child, during birth or as a result of breast feeding. Effective means exist to prevent transmission through each of these modes.

As HIV continues to spread, prevention, remains the backbone of programs to cure the epidemic for the foreseeable future. However, there is a



need for more comprehensive programs that encompass prevention, care, treatment, and support interventions. Comprehensive prevention programs for people living with HIV include (PRB, 2006: 12).

- General education about the risk of sexual transmission,
- Support for low-risk behaviour, including condom, use;
- Diagnosis and treatment of STIs,
- Counseling and testing for HIV;
- Preventing mother-to-child transmission;
- Ensuring the safety of blood and blood products;
- Needle exchange programs; and
- Reducing the stigma attached to HIV and AIDS.

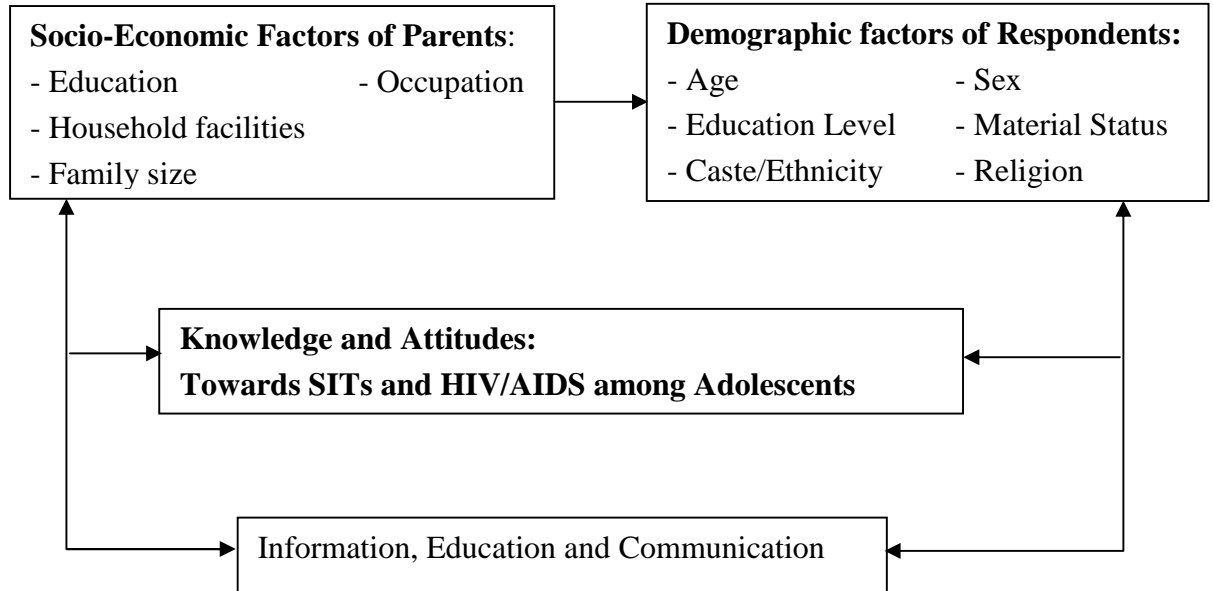
Women are most aware that the chances of getting the AIDS virus can be reduced by limiting sex to one uninfected partner who has no other partners (65 percent) or by abstaining from sexual intercourse (60 percent). Among men, the most commonly known prevention methods are use of condoms (84 percent) and limiting sex to one uninfected partner (83 percent). Knowledge of condoms and the role that they can play in preventing the transmission of AIDS is much less common among women than among men (58 percent versus 84 percent). Fewer women and men (55 percent and 77 percent, respectively) are aware that using condoms and also limiting sex to one uninfected partner can reduce the risk of getting the AIDS virus (NDHS, 2006).

## **2.7 Conceptual Framework**

There are various factors to determine the level of knowledge and attitude towards SITs and HIV/AIDS. Parental socio-economic background characteristic such as education, occupation, family size and household facilities could play an important role to determine the knowledge and attitudes towards SITs and HIV/AIDS of their children. Demographic factors of respondents such as age, sex, educational level, marital status, caste/ethnicity an religion may also affect the knowledge and attitudes towards SITs and

HIV/AIDS. IEC materials may play a vital role in determining knowledge and attitudes towards SITs and HIV/AIDS among adolescents.

### Conceptual Framework of the Study



The conceptual framework which is made on the basis of literature review, helps to analyze the knowledge and attitude of context of HIV/AIDS among secondary level school students.

## **CHAPTER III**

### **METHODOLOGY**

This chapter explains the methodology adopted to conduct this study. This study is based on the field survey. This study is carried out based on primary data. This chapter contains selection of the study area, nature and sources of data, questionnaire design, sample selection, and sample size, method of data collection, data management and data processing and analysis. The methodologies are briefly discussed along the following sub-titles.

#### **3.1 Selection of the Study Area**

Surkhet is a beautiful mid-hilly district which lies in the Bheri zone belonging to the mid-western development region of Nepal. It is also headquarter of mid-western development region. It is extending from east to west with an area of 2451sq.km. According to the population census of 2001, the total population of the district is 2,88,527 of which 192817 (49.50%) are males and 145,710 (50.50%) are females. The total no. of households are 45047 with an average household size of 5.34 person per house. The population density is 118 per sq. km.

According to the population VDCs survey 2008 (2065), the total population of the Satakhani VDC is 12,600 of which 6060 (48.1%) are males and 6540 (51.9%) are females. The total no. of households are 1784 with an average household size of 7.1 person per house.

Surkhet district is surrounded by another 7 districts, Banke and Bardiya in the south, Dailekh and Jajarkot in the north, Kailali and Achham in west and Salyan in east. There are 50 village development committees (VDCs) and one municipality (Birendranagar) in Surkhet. This study has been carried out in Satakhani VDCs of Surkhet districts. Within Satakhani VDCs Shree Khand Devi secondary school Satakhani Chaurase Surkhet is only one secondary school in this VDCs. It lies in the ward no. 5 of Satakhini VDC. The main

occupation of people in the study area is agriculture. The study area has been chosen deliberately because of the pre-informed area for the researcher to draw the real information of respondents (Adolescents/ students).

### **3.2 Nature and Sources of Data**

This study is primarily based on primary data as main source of information. To draw the reliable and acceptable finding of the research, two types of data, primary and secondary were used in this study. The primary data collected from the survey in August 2009. Secondary data used in this study were collected from the various national international annual reports, newspaper bulletins and previous dissertations published by government and non-government organizations. Questionnaire were prepared and interviewed to the sample of target population. The finding of this study are mainly based on primary data (Field Survey, 2009). The primary data that is qualitative and quantitative in nature were collected directly from the respondents, under study population by means of interview, questionnaire and observation methods.

### **3.3 Questionnaire Design**

A well knitted questionnaire was developed for the study. For this study, structure, semi-structure and open-ended questions designed for quantitative data collection. Most of the questions were pre-coded and the questionnaire was also pre-tested and then required modifications were made before-field work. The study questionnaire included the socio-economic and demographic characteristics of the respondents. The whole set of questionnaire was divided into four sections.

- i) Household characteristics
- ii) Individual characteristics
- iii) Knowledge and attitude on STIs and
- iv) Knowledge and attitude on HIV/AIDS

### 3.4 Sample Size and Selection Procedures

Shree Khand Devi Secondary School, Surkhet was selected by using purposive sampling method. The sample size of this study is 150 secondary level students of class 9 and 10 for the purpose of the study. According to the review of school enrollment registers of 2066, there were 1221 students (i.e, 641 boys and 580 girls) in this selected school. Out of them 307 students are related in class 9 and 10. Out of 307 students nearly 50 percent or 150 students were selected as the sample size of the study, which is chosen by using purposive sampling method based on quota sampling. Sample students were selected by giving them number from 1 to 150 in a classed cheat. Whoever got the number was included in the study but the students who didn't get the blank cheat were sent outside.

The sample selection was drawn as follows:

Class	Total Population			Sample Population		
	Male	Female	Total	Male	Female	Total
9	98	84	182	39	44	83
10	65	60	125	39	28	67
Total	163	144	307	78	72	150

Source: Field Survey, 2009.

### 3.5 Method of Data Collection

In this study data were collected through the individual written interview method. The well prepared structure questionnaires were distributed to the selected sample students in the selected schools classroom. The respondents were carefully supervised during the distribution of questionnaires to minimize data error. And also they were given necessary information to fill up the questionnaire. Then, students were asked to fill up the questionnaires and finally after completion, questionnaires were collected. The help of school teachers from related schools was taken during data collection.

### **3.6 Data Management**

After collection of the questionnaires, they were checked, edited and post coded. Then the necessary tables were generated using the traditional method i.e. tally bar. The gathered descriptive data have been presented in different tables.

### **3.7 Data Analysis and Interpretation**

The collected information are put together and analyzed in a separate chapter of interpretation. The data obtained from the field survey was processed and analyzed to interpret their implication. The data analysis and interpretation have been made based on the number of cases (simple frequency tables), percentage distribution, cross tabulations as well as the figures i.e. bar-diagram and pie-charts.

## CHAPTER IV

### DEMOGRAPHIC AND SOCIO-ECONOMIC CHARACTERISTICS OF RESPONDENTS

This chapter presents the socio-economics and demographic characteristics of the respondents, mainly as age and sex, caste/ethnicity, education, religion, marital status, parents education and current place of residence. Socio-economic background also provides information about parents occupation, and housing facilities of respondents.

#### 4.1 Household Characteristics

This section identifies about the socio-economic status of respondents parents such as level of education, parent's occupation and family size and facility available in the household. The questions regarding these household characteristics were included into the questionnaire.

##### 4.1.1 Family Size

Family size show the status of quality of life. Small family size may be considered as an indicator of healthy and happy life. To find out the family size of the respondents, they were further asked about the number of their family members and the result is presented in table 4.1.

**Table 4.1: Distribution of Respondents by their Family size**

Number of family size	Number	Percent
Less than 5 members	31	20.7
5 - 7 members	67	44.7
8 -10 members	39	26.0
more than 10 members	13	8.6
Total	150	100.0

*Source : Field Survey, 2009.*

Table 4.1 shows that majority of the respondents (44.7%) have the family size of five to seven members. Twenty-six percent of the respondents have the family size of eight to ten members and the lowest proportion of them (8.6%) reported family size of more than 10 members.

#### 4.1.2 Educational Level of Parents

Parent's education is one of the important socio-economic factors that may determine their children's level of knowledge and attitude in every aspect. In questionnaire the educational level of father and mother were asked separately in household roster schedule. The results are shown in table 4.2.

**Table 4.2: Distribution of Respondents by Parents Educational Level**

Literacy	Father		Mother	
	Number	Percent	Number	Percent
Literate	136	93.2	116	79.0
Illiterate	10	6.8	31	21.0
<b>Level of literacy</b>				
Literate (non-formal)	15	10.3	43	29.3
Primary (1-5)	41	28.1	49	33.3
L. Secondary (6-8)	36	24.7	17	1.6
Secondary (9-10)	21	14.4	5	3.4
SLC passed	19	13	2	1.4
HHS and above	4	2.7	-	-
Total	146	100.0	147	100.0

*Source: Field Survey, 2009.*

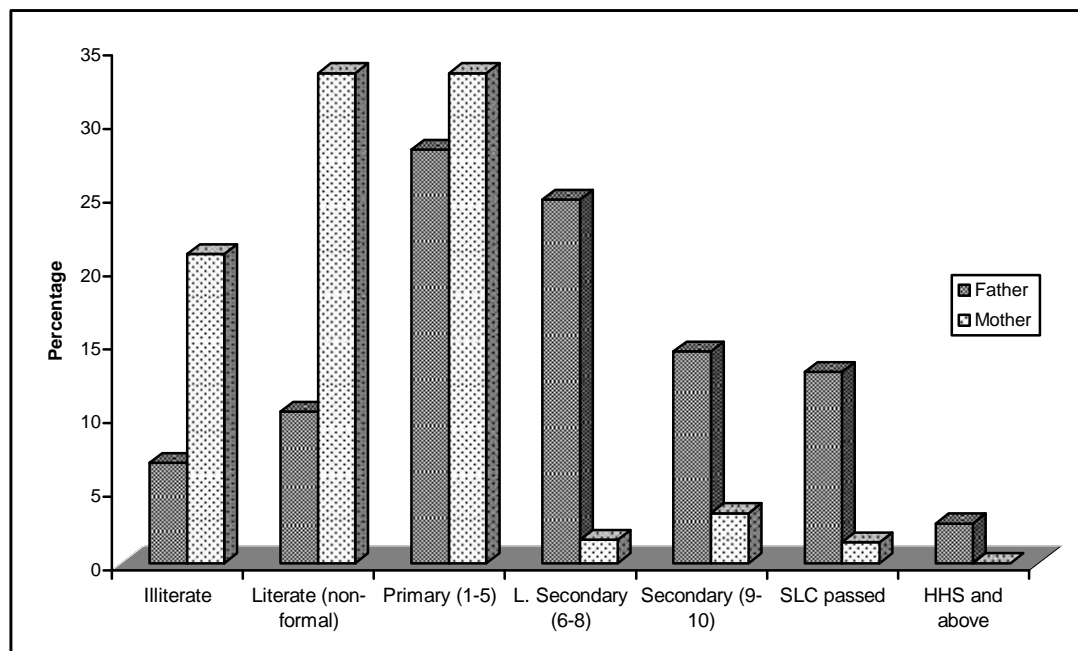
Note: Educational status of parents who are still alive only.

Table 4.2 shows that higher proportion of respondents mothers (21.0%) are illiterate whereas only 6.8 percent respondent's fathers are illiterate. Among literate, majority of respondents mothers (33.3%) have attained primary level of education and only 1.4 percent have SLC level of education and above comparatively, the respondent's fathers educational attainments are better than their mother's. The table shows that the proportion of respondent's father's having lower secondary and secondary level of education is more than and 2



and 4 times more than that of their mothers respectively and it is 10 times more in the case of SLC passed and above level.

**Figure 1 : Percentage Distribution of Respondents by Parents' Education**



### 4.1.3 Parent's Occupation

The occupation of parents can also be taken as the important variable that determines the socio-economic status of the household and it may also affects the knowledge of their children on STIs and HIV/AIDS. Information about respondents parent's occupation are presented in table 4.3.

**Table 4.3: Distribution of Respondents by Parent's Occupation**

Occupation	Father		Mother	
	Number	Percent	Number	Percent
Agriculture	116	79.5	137	93.2
Business	7	4.8	3	2.0
Service	6	4.1	-	-
Labour/Daily wages	12	8.2	7	4.8
Foreign workers	5	3.4	-	-
Total	146	100.0	147	100.0

Source: Field Survey, 2009.

Note: Occupation status of parents who are still alive only.

Table 4.3 shows that higher percentage (79.5%) of respondent's reported their father's major occupation is agriculture, followed by business (4.8%), service (4.1%), daily wages (8.2%) and the lowest proportion (3.4%) reported foreign workers. Most of the respondent's mothers are dependent on agriculture/housewife (93.2%). Involvement in other occupation is very low. The proportions of respondents whose mothers are involved in business and daily wages are only 2.0 and 4.8 percent respectively. No one of them reported their mothers involving in service and foreign workers.

#### 4.1.4 Household Facilities

Household facility is important economic indicator of the family as well as country. More the household facility at home that makes easy to survive the member of family. Respondents household facility is shown in table 4.4.

**Table 4.4 : Distribution of Respondents by Facilities at Home**

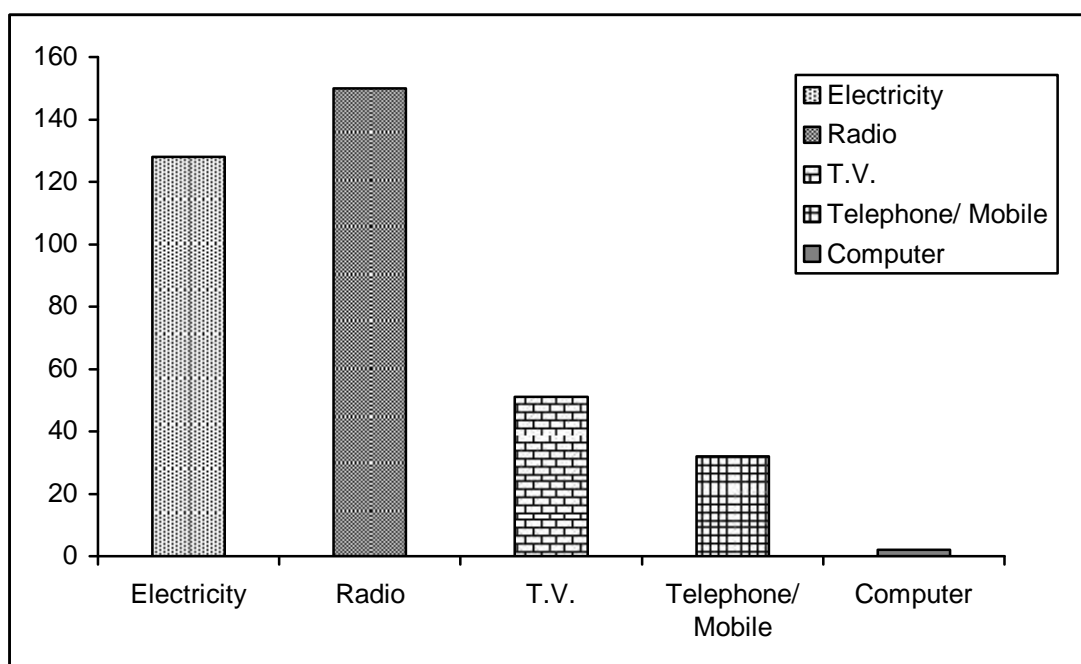
Facilities	Number	Percent
Electricity	128	85.3
Radio	150	100.0
T.V.	51	34.0
Telephone/ Mobile	32	21.3
Computer	2	1.3

*Sources: Field Survey, 2009.*

Note: The sum of number and percentages may exceed 100 due to multiple responses.

From table 4.4 it is seen that most of the respondents (85.3%) have facility of electricity, followed by (100%) have facility of Radio. Similarly, 34 percent respondents have television and low percentages of respondents (21.3%) have telephone (including mobile) facility at their home but very low percentage of respondents (1.3%) have facility of computer at their home.

**Figure 2: Percentage Distribution of Respondents by Facilities at Home**



## **4.2 Individual Characteristics**

This section includes different characteristics of the respondents, individual characteristics include age and sex, caste ethnicity, religion, marital status and place of residence of respondents at the time of survey. To obtain the information about these individual characteristics the questionnaire was given to respond about it.

### **4.2.1 Age and Sex Composition**

Age and sex composition are the strong determining factors for the demography. In order to know the age and sex of the respondents, the question was asked about it and the distribution of the respondents by single year of age and sex obtain from the field are presented in Table 4.5.

**Table 4.5: Distribution of Respondents by Age and Sex**

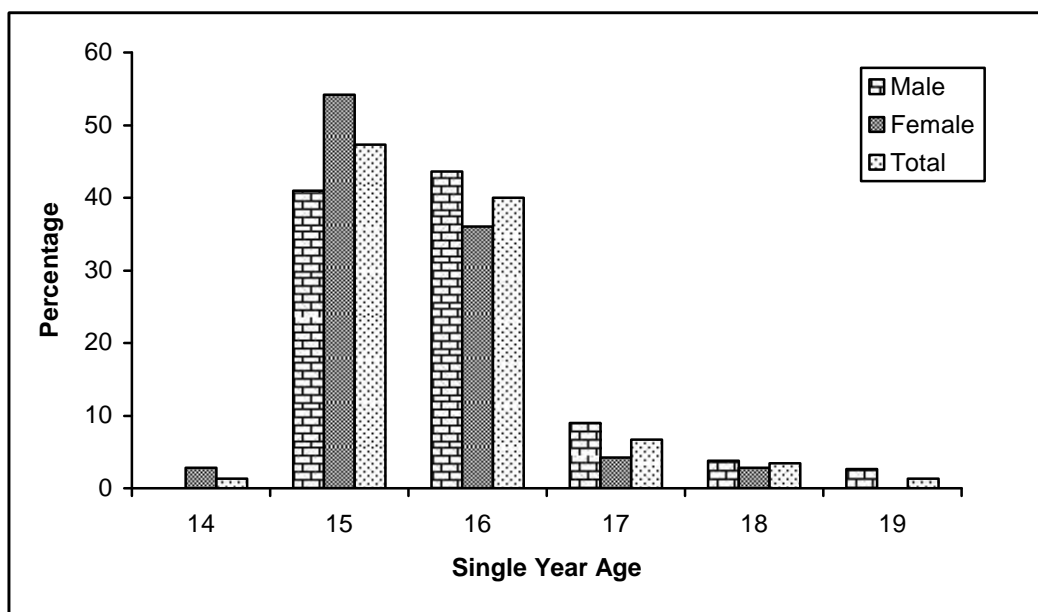
Age in years	Respondents					
	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
14	-	-	2	2.8	2	1.3
15	32	41.0	39	54.2	71	47.3
16	34	43.6	26	36.0	60	40.0
17	7	9.0	3	4.2	10	6.7
18	3	3.8	2	2.8	5	3.4
19	2	2.6	-	-	2	1.3
Total	78	100.0	72	100.0	150	100.0

Source: Field Survey. 2009.

The age of the students ranges from 14 to 19 years. Table 4.5 shows that highest percentage (47.3%) of respondents are found in the age of 15 years which is followed by 16 years (40.0%) and 17 years of age (6.71%). The lowest percentage (1.3%) of respondents are found in the age 14 and 19 years.

The table also clarifies that higher proportions of males (43.6%) and females (47.3%) are found in 16 years and 15 years of age respectively. there is no male student of age 14 years. The lowest percentages of male (2.6%) and females (2.8%) are found in 19 years and 14 years of age respectively. The single year age/sex distribution of the respondents can also be observed in figure 3.

**Figure 3: Single Year Age Distribution of Respondents by Sex**



#### 4.2.2 Caste/Ethnicity

Caste/ethnicity in the context of Nepal is an important social factor affecting attitude and standard of people (K.C., 1995). According to census, 2001, more than 100 caste ethnic groups were prevalent in Nepal. A question on caste ethnicity was kept in the questionnaire. The caste/ethnic status of the respondents is presented in table 4.6.

**Table 4.6: Distribution of Respondents by Caste/Ethnicity**

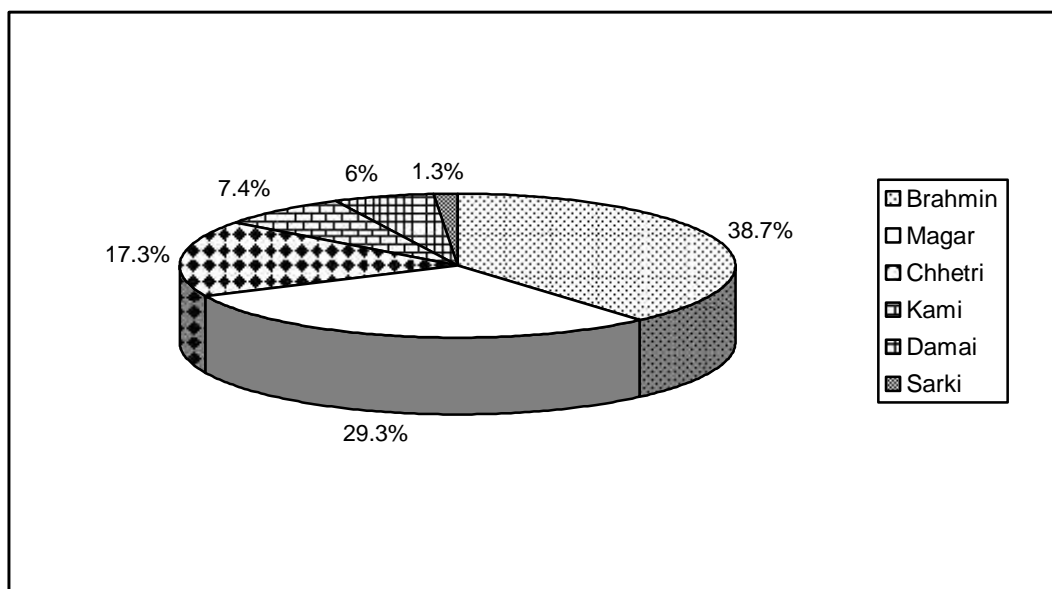
Caste/Ethnicity	Number	Percent
Brahmin	58	38.7
Magar	44	29.3
Chhetri	26	17.3
Kami	11	7.4
Damai	9	6.0
Sarki	2	1.3
Total	150	100.0

Source: Field survey, 2009.

Table 4.6 gives the information about the caste/ethnicity of the respondents. The total respondents fall into six caste/ethnic groups. Among them

the highest proportion of respondents are Brahmin (38.7%) followed by Magar (29.3%), Chhetri (17.3%), Kami (7.4%), Damai (6.0%) and Sarki (1.3%). The distribution of respondents by caste/ethnicity can also be observed in figure 4.

**Figure 4 : Distribution of Respondents by Caste/Ethnicity**



### 4.2.3 Religion

Religion belief and social values guides the human behaviour. Religion has become a sensitive topic in ethnically diverse Nepalese society, because, caste/ethnicity has close relationship with religion. In Nepalese society, religion is affected by caste system (K.C., 1995). In the study area 2 religion groups are found which are presented in table 4.7.

**Table 4.7: Distribution of Respondents by Religion**

Religion	Number	Percent
Hindu	141	94.0
Buddhist	-	-
Christian	9	6.0
Total	150	100.0

Source: Field Survey, 2009.

Table 4.7 shows the composition of respondents by religion. In this study area most of the respondents (94.0%) are Hindu and followed by Christian (6.0%).

#### 4.2.4 Marital Status

Table 4.8 shows that the marital status of the respondents. Due to rural area some adolescents students are getting married.

**Table 4.8 : Distribution of Respondents by Marital Status**

Marital Status	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
Unmarried	3	3.8	7	9.7	10	6.7
Married	75	96.2	65	90.3	140	93.3
Total	78	100.0	72	100.0	150	100.0

Source: Field Survey, 2009.

Above table shows that 93.3 percent respondents are unmarried and 6.7 percent are married, among them female proportion is high.

#### 4.2.5 Current Place of Residence

Respondents were asked about their current living status i.e. whether they were living in their home, hostel, rented house or relative's house. This also affects the level of knowledge and attitude on HIV/AIDS because it is expected that the mobile population generally have more knowledge on such matters than others who stay in one place. The responses on the living status is presented in Table 4.9.

**Table 4.9: Distribution of Respondents by Current Place of Residence**

Current place of residence	Number	Percent
Home	137	91.3
Relative's house	9	6.0
Rented room	4	2.7
Total	150	100.0

Source: Field Survey, 2009.

Table 4.9 shows that majority of the respondents are resided in their own home which is accounted for 91.3 percent and 6.0 percent accounted relatives house and 2.7 percent of respondents are found residing in rented room.

## CHAPTER V

### KNOWLEDGE AND ATTITUDE ON STIs AND HIV/AIDS

This chapter presents the analysis about the extent of knowledge on STIs and HIV/AIDS among adolescents and it also discusses their attitudes on the respective issues. In the context of knowledge, heard of STIs, HIV/AIDS and their names, knowledge on transmission, knowledge on preventive measures and sources of knowledge and described. Similarly, regarding their attitudes, their opinion on HIV/AIDS, whom they think the most vulnerable from STIs and their opinion on sexuality education.

#### 5.1 Knowledge on STIs

The knowledge on sexually transmitted infection is measured in terms of several variables. First of all, it is examined whether the respondents heard about STIs or not. Then knowledge on symptoms, mode of transmission, preventive measures have been examined.

##### 5.1.1 Heard of STIs

The most important variables to access the knowledge on STIs was taken as heard of STIs. The question was asked if the respondents have heard about STIs or not. The responses are presented in table 5.1

**Table 5.1: Distribution of Respondents by Heard of STIs According to Sex**

Heard of STIS	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
Yes	72	92.3	62	86.1	134	89.3
No	6	7.7	10	13.9	16	10.7
Total	78	100.0	72	100.0	150	100.0

Source: Field Survey, 2009.

According to table 5.1, most of them (89.3%) have heard about sexually transmitted infection. But 10.7 percent respondents have not heard STIs. The proportion of male respondents who have heard about STIS is higher than that of female respondents.



### 5.1.2 Knowledge on Types of STIs Heard

The respondents who heard about sexually transmitted infection were further asked to state which STIs they have heard. Table 5.2 gives the data about different types of STIs they have heard.

**Table 5.2: Distribution of Respondents by Types of STIs Heard**

Types of STIs	Number	Percentage
Gonorrhea	89	66.4
Syphilis	78	58.2
HIV/AIDS	150	100.0
Hepatitis-B	12	9.0
Others	17	12.7

Source: Field Survey, 2009.

Note: Only those who have heard about STIs.

As stated in Table 5.2, the HIV/AIDS is very common type of sexually transmitted infection which is heard by all of the respondents (100 %). Gonorrhea and syphilis are heard by 66.4 and 58.2 percent of the respondents respectively. About 13 percent of the respondents have heard others types of STIs like Genital warts and Chlamydia. Nine percent of the respondents have heard of Hepatitis-B also.

### 5.1.3 Knowledge on Symptoms of STIs

It is important to ask the symptoms of sexually transmitted infection to evaluate the knowledge about. Table 5.3 gives the data about knowledge on symptoms of SITs.

**Table 5.3: Distribution of Respondents by Knowledge on Symptoms of STIs by Sex**

Symptoms of STIs	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
Headache	38	52.8	35	56.5	73	54.5
Swelling limbs	48	66.7	40	64.5	88	65.7
Itching around genital and mouth	53	73.6	41	66.1	94	70.1
Yellowish pus-like discharge from vagina	32	44.4	49	79.0	81	60.4

Source: Field Survey, 2009.

Note: Total percentage may exceed hundred due to multiple response.

Table 5.3 shows that among the respondents who have heard STIs, most of them understand that the main symptoms of STIs is itching around genitals (70.1%) followed by swelling limbs (65.7%). Yellowish pus-like discharge from vagina (60.4%) and 54.5 percent of the respondents said headache as one of the symptoms of STIs.

Similarly, more girls (79%) than boys (44.4%) said yellowish pus-like discharge from vagina as the symptoms of STIs.

#### **5.1.4 Sources of Information on STIs**

Actually respondents felt difficult to pronounce STIs they were familiar of the word STDS. When researcher himself reminded them they became able to give responses on STIs. Less information is given as infection through the different medias as well. Respondents were asked about the media through which they heard about STIs. The responses are tabulated in 5.4.

**Table 5.4: Distribution of Respondents by Source of Information STIs by Sex**

Sources of Information	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
Radio	50	69.4	34	54.8	84	62.7
T.V.	9	12.5	6	9.7	15	11.2
Magazine	6	8.3	7	11.3	13	9.7
NGO/INGO	13	18.1	10	13.9	23	17.2
Health Personnel	26	36.1	30	48.4	56	41.8
Friends	34	47.2	32	51.6	66	49.3
Parents	2	2.8	6	9.7	8	6.0
Teacher/Textbook	68	94.4	59	95.2	127	94.8

Source: Field Survey, 2009.

Note: Only those who have heard of STIs and total percentage may exceed hundred due to multiple response.

It is notable from table 5.4 that the strongest media to get information on STIs is teacher/textbook for the school adolescents for which about (95%) of the girls and boys reported on it. The second strongest media is found to be radio 62.7 percent of the respondents reported. Friends and health personnel to be less effective to have heard about STIs (49.3% and 41.8%) respectively. The socio-economic status of parents was found low they were less informative about sexuality and STIs to their children. Only 6 percent of the respondents reported that they have heard about STIs by their parents. T.V., NGO/INGOS and magazine also seemed less effective to provide sufficient information on STIs.

### **5.1.5 Knowledge on Mode of Transmission of SITs**

First of all, respondents were asked whether they know the mode of transmission of STIs or not. According to table 5.5, among those who have heard of STIs 131 respondents (97.8%) know the mode of transmission of

STIs. Only 3 respondents of class nine reported that they do not know the mode of transmission of STIs. It shows that the knowledge is different by level of education.

**Table 5.5: Distribution of Respondents by Knowledge on Mode of Transmission of STIs by Grade**

Knowledge on Transmission of STIs	Grade 9		Grade 10		Total	
	No.	Percent	No.	Percent	No.	Percent
Yes	69	95.8	62	100.0	131	97.8
No	3	4.2	-	-	3	2.2
Total	72	100.0	62	100.0	134	100.0

Source: Field Survey, 2009.

Note: Only those who have heard of STIs.

The respondents who have knowledge on mode of transmission of STIs were further asked to specify the modes. Table 5.6 gives the data about it.

**Table 5.6: Distribution of Respondents by Knowledge on Mode of Transmission of STIs by Grade**

Knowledge on Transmission of STIs	Grade 9		Grade 10		Total	
	No.	Percent	No.	Percent	No.	Percent
Sexual contacts	65	94.2	62	100.0	130	97.0
Living together	32	46.4	41	66.1	73	54.5
Contaminated needles and blood	45	65.2	48	77.4	93	69.4
Mother to fetus	24	34.8	44	71.0	68	50.7

Source: Field Survey, 2009.

Note: Only those who have knowledge on STIs.

Table 5.6 shows that (94.2%) of respondents of grade nine and 100 percent of the respondents of grade ten stated sexual contact with infected person as the most important mode of STIs transmission. The second most reported mode of transmission (69.4%) is contaminated needles and blood in which (65.2%) and (77.4%) of the respondents said grade nine and ten

respectively. Living together with infected person and infected mother to her child were reported by 54.5 and 50.7 percent respectively. It shows that the level of knowledge is differ due to level of education.

### **5.1.6 Knowledge on Preventive Methods of STIs**

The respondents were also asked about whether they have knowledge on preventive methods of STIs or not. Table 5.7 shows the clear picture about their knowledge on preventive methods.

**Table 5.7: Distribution of Respondents by Knowledge on Methods of Prevention of STIs**

<b>Preventive Methods of STIs</b>	<b>Number</b>	<b>Percent</b>
Using condom	131	100.0
Sexual contact with single partner	75	57.3
Avoiding contaminated syringes and blood	61	46.6
Common use of patient's essentials	52	39.7

Source: Field Survey, 2009.

Note: The percentage is based on only those who have knowledge on modes of STIs transmission and its sum may exceed 100 due to multiple response.

## **5.2 Attitude on STIs**

This section deals with the respondents view towards STIs, STIs infected person, vulnerable professionals in the society. The attitude towards STIs has been addressed from various types of attitudes and perceptions about this disease and infected persons.

### **5.2.1 Attitude towards STIs infected Person**

Table 5.8 gives the distribution of respondents by having attitude towards STIs infected person in their community.

**Table 5.8: Distribution of Respondents by having Attitude Towards STIs Infected Person**

<b>Attitude</b>	<b>Number</b>	<b>Percent</b>
Hate them	40	26.7
Love and respect them	27	18.0
Help and participate them	48	32.0
Don't know	35	23.3
Total	150	100.0

Source: Field Survey, 2009.

Table 5.8 shows that 50 percent of the respondents have positive attitude towards STIs infected person in their community. Only 26 percent respondents have negative attitude and 23.3 percent of the respondents reported they don't know toward STIs infected person.

### **5.2.2 Attitude Towards Sexually Transmitted Infection (STIs)**

Table 5.9 gives the distribution of the respondents by having attitude towards STIs for this respondents were asked the question, STIs be cured or not. Among the respondents 70 percent said STIs be cured, 18.7 percent said not cured and 11.3 percent of the respondents said they don't know towards STIs be cured or not.

**Table 5.9: Distribution of Respondents by having Attitude Towards STIs be Cured or Not**

<b>Attitude</b>	<b>Number</b>	<b>Percent</b>
Yes	105	70.0
No	28	18.7
Don't know	17	11.3
Total	150	100.0

Source: Field Survey, 2009.

### 5.2.3 Suggestion for Avoiding STIs

For this, respondents were asked to suggest for avoiding STIs. Table 5.10 gives the detailed information about it.

**Table 5.10: Distribution of Respondents by Suggestions for Avoiding STIs**

<b>Suggestions</b>	<b>Number</b>	<b>Percent</b>
Using condom during sexual intercourse	132	88.0
Always clean own sexual organs	48	32.0
Always keep sexual relation with one partner	70	46.7
Acquire sexual education	39	26.0
Avoid sexual intercourse with infected person	72	48.0
Keep the infected person separate	23	15.3
Not stated	18	12.0

Source: Field Survey, 2009.

Note: Total percent may exceed hundred due to multiple responses. N= 150

Table 5.10 clarifies that the main suggestion, which is given by majority of respondents, is to use condom during sexual intercourse which is reported by majority of respondents (88%) follow by avoid intercourse with infected person (48.0%), always keep sexual relation with one partner (46.7%), always clean own sexual organs (32.0%), acquire sexual education (26%), acquire sexual education (26%) and only 15.3 percent respondents suggest keeping infected person separately. Twelve percent respondents have not mentioned any preventive measures.

### 5.2.4 Suggestions for Infected Persons of STIs

Table 5.11 gives the distribution of the respondents by suggestions to infected person in their community.

**Table 5.11: Distribution of Respondents by Suggestions to STIs Infected Person**

<b>Suggestions</b>	<b>Number</b>	<b>Percent</b>
Go for treatment	125	83.3
Use condom or avoid sex	64	42.7
Make aware to others	52	34.7
Keep sexual organs clean	53	35.3
Others suggestions	19	12.7
Not stated	25	16.7

Source: Field Survey, 2009.

Note: Total percent may exceed hundred due to multiple responses. N= 150

Table 5.11 shows that most of the respondents (83.3%) suggests infected persons to go for treatment. likewise 42.7 percent respondents said that they would suggest using condom or avoiding sex with other persons, about 35 percent respondents would suggest make aware to others and keep sexual organs clean only few respondents (12.7%) would suggest other suggestions and (16.7%) respondents did not state any suggestion to the infected person.

### **5.3 Knowledge on HIV/AIDS**

In this study knowledge on HIV/AIDS has been addressed through various questions first of all, wheather heard about HIV/AIDS, full form of HIV/AIDS, source of information modes of transmission and methods of prevention. The data obtained about it are presented simultaneously.

#### **5.3.1 Heard of HIV/AIDS**

To examine the knowledge on HIV/AIDS respondents were asked wheather they have heard about HIV/AIDS or not. All of they respondents reported that they have heard about HIV/AIDS because of their text book where information about HIV/AIDS are included.



### 5.3.2 Source of Information

Table 5.12 provides the information on the distribution of the respondents who have knowledge on HIV/AIDS by source of information.

**Table 5.12 Distribution of Respondents by Source of Information on HIV/AIDS**

Source of information	Number	Percent
Radio	132	88.0
T.V.	44	29.3
Magazine	28	18.7
NGO/INGO	21	14.0
Health Personnel	58	38.3
Friends	46	30.7
Parents	6	4.0
Teachers/Text book	144	96.0

Source: Field Survey, 2009.

Note: Total percent may exceed hundred due to multiple responses. N=150

Table 5.12 clearly shows that about all of the respondents were found having heard about HIV/AIDS. Regarding source of information on HIV/AIDS, the table shows 96 percent of the respondents have heard about HIV/AIDS through teacher textbook followed by Radio (88%). Similarly, around 30 percent each of the respondents reported T.V. and friends as the source of information on HIV/AIDS followed by Health Personnel (38.7%), Magazine (18.7%), NGO/INGO (14%) and only 4 percent respondents reported parents as the source of information on HIV/AIDS.

### 5.3.3 Knowledge on Full-Form of HIV/AIDS

To find out the level of knowledge on HIV/AIDS, respondents were asked to write the respective full-forms. The responses were categorized in two levels as correctly written and incorrectly written. These two categories of responses are tabulated in table 5.13.

**Table 5.13: Distribution of the Respondents by Knowledge on Full-Form of HIV/AIDS**

<b>Knowledge on full-form of HIV/AIDS</b>	<b>Number</b>	<b>Percent</b>
Correctly written	116	77.3
Incorrectly written	34	22.7.
Total	150	100.0

Source: Field Survey, 2009.

It is evident from Table 5.13 shows that most of the respondents have written the full-form HIV/AIDS correctly which is accounted for 77.3 percent. The rest 22.7 percent of the respondents have not written correctly.

#### **5.3.4 Knowledge on Modes of Transmission of AIDS**

In order to know about the level of knowledge on HIV/AIDS among the respondents, they were asked the ways of transmission of AIDS. Respondents are found to have proper knowledge on the ways of transmission of AIDS. Table 5.14 presents the responses on the ways of transmission of AIDS by sex.

**Table 5.14: Distribution of the Respondents by Knowledge on Modes of Transmission of AIDS**

<b>Modes of transmission</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
Sexual contacts	78	100.0	72	100.0	150	100.0
contaminated needles and blood	65	83.3	58	80.6	123	82.7
mother to fetus	48	61.5	42	58.3	90	60.0
Brest feeding	5	6.4	10	13.9	15	10
sharing razor	38	48.7	24	33.3	62	41.3
kissing	-	-	3	4.2	3	4.2
sleeping together	-	-	2	2.8	2	1.3

Source: Field Survey, 2009.

Note: Total percent may exceed hundred due to multiple responses.

No matter about sex differences all of the respondents reported that the main ways of transmission of HIV/AIDS are sexual contacts followed by contaminated needles and blood (84.7%), mother to fetus (60%), sharing razor (41.3%). The percentage is high for boys for this option because mostly the boys use razor for shaving and barbers use one razor for only one person. Sharing razor also may transmit. If the bloody razor of infected person makes wound to healthy, but such chance is rare.

### 5.3.5 Knowledge on Preventive Methods of HIV/AIDS

It is important to ask about the preventive methods of HIV/AIDS to evaluate the knowledge about the preventive methods. Among the respondents who have ever heard about HIV/AIDS were asked about the methods of prevention of it. All of the respondents were reported having heard about HIV/AIDS. The goal of HIV/AIDS programme is not only to make people knowledge about HIV/AIDS but it is to change the attitude and behaviour about it. The result from the survey among the secondary school adolescents on the knowledge of preventive methods of HIV/AIDS is presented in table 5.15.

**Table 5.15: Distribution of the Respondents by Knowledge on Preventive Methods of HIV/AIDS**

Methods of prevention of AIDS	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
Use condom	78	100.0	72	100.0	150	100.0
Don't have sex with multiple partner	52	66.7	59	81.9	111	74.0
Use sterilize surgical instruments	34	43.6	47	65.3	81	54.0

Source: Field Survey, 2009.

Note: Total percent may exceed hundred due to multiple responses.

It is notable from the table 5.15 that the respondents shortly choose only three main preventive methods of HIV/AIDS. Interestingly, all of the

respondents reported that the use of condom is the most important and effective method of prevention of HIV/AIDS. Similarly, higher proportions of girls (81.9%) than boys (66.7%) said not to have sex with multiple partners in order to prevent HIV/AIDS and 65.3 percent of the girls also said to use sterilized surgical instruments while only 43.6 percent of the boys agreed on this.

## 5.4 Attitudes on HIV/AIDS

This section deals with the respondents view towards AIDS, AIDS infected person, vulnerable professionals in the society, opinion on HIV/AIDS. The open discussion status in school is also attempted to collect.

### 5.4.1 Views on Vulnerable Group for HIV Infection

In order to know their views on vulnerable group for HIV infection based on their understanding about AIDS, respondents were asked a question about it. The responses are tabulated in table 5.16.

**Table 5.16: Distribution of the Respondents by Views on Vulnerable Group for AIDS Infection in Society**

Vulnerable group	No. of Respondents	Percent
Youth/adolescents	42	28.0
Drivers	53	35.3
Drugs addicts	130	86.7
Commercial sex workers	145	96.7
All	5	3.3

Source: Field Survey, 2009.

Note: Total percent may exceed hundred due to multiple responses. N = 150

It is clear from the table 5.16 that most of the respondents (96.7%) said that the commercial sex workers are vulnerable to HIV/AIDS in the society, followed by drug addicts (86.7%), drivers (35.3%). Twenty-eight percent of respondents also reported the youth/adolescents as vulnerable group of HIV infection in the society. The least proportion of the respondents also said all as vulnerable group of AIDS in the society.

#### 5.4.2 Perception on HIV/AIDS Infected Person

In order to know their attitudes on HIV/AIDS infected person, respondents were asked about what is your perception about AIDS infected person some options were given in which 'all of them die,' 'some of them die', 'nobody dies at all' or 'don't know' were given. Respondents choose only two of them, which are 'all of them die' and 'some of them die'. The responses are tabulated in table 5.17.

**Table 5.17: Distribution of the Respondents by Perception on HIV/AIDS Infected Person**

Perception on HIV/AIDS infected person	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
All of them die	56	71.8	48	66.7	104	69.3
Some of them die	22	28.2	24	33.3	46	30.7
Total	78	100.0	72	100.0	150	100.0

Source: Field Survey, 2009.

Table 5.17 shows that among the respondents 69.3 percent consisting 71.8 percent of the male and 66.7 percent of the females reported that all of the HIV infected person die, while 30.7 percent (male 28.2 and girls 33.3%) said that some of them die.

#### 5.4.3 Opinion on HIV/AIDS

IN order to know about their attitude towards AIDS, respondents were asked about how they have perceived the AIDS whether it is a fatal disease, sexually transmitted disease, communicable disease and so on. The responses are tabulated in table 5.18.

**Table 5.18: Distribution of the Respondents by Opinion on HIV/AIDS**

<b>Opinion on HIV/AIDS</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
Fatal disease	38	48.7	36	50.0	74	49.3
Sexually transmitted disease	65	83.3	58	80.6	123	82.0
Communicable disease	13	16.7	9	12.5	22	14.7
Dangerous disease	14	17.9	17	23.6	31	20.7
Immune deficiency Syndrome	16	20.5	14	19.4	30	20.0

Source: Field Survey, 2009.

Note: Total percent may exceed hundred due to multiple responses. N = 150

It is clear to note from the table 5.18 that the majority of the respondents have accepted AIDS as sexually transmitted disease which is accounted for 82 percent of the respondents followed by fatal disease (49.3%), dangerous disease (20.7%), immune deficiency (20%) and 14.7 percent accepted AIDS as communicable disease.

#### **5.4.4 Teacher's Perception to Provide Information on STIs and HIV/AIDS**

Because of our societal belief, teacher's perception on STIs and HIV/AIDS or (sexuality) has not been changed as that had to be. Teachers in the remote areas still hesitate to teach clearly on sexuality what they have understood. Rather they have less information on it because it became trend to provide less information and they also learnt less from their teacher. But in the urban situation is different. Because of interest and availability of different media, adolescents get more information on STIs and HIV/AIDS or (sexuality) on the one hand and teacher also provides information without hesitation on the other.

**Table 5.19: Distribution of the Respondents by Opinion on Teachers Behaviour in Providing Information on STIs and HIV/AIDS and Response for Not Describing**

Teacher's description	Male		Female		Total	
	No.	Percent	No.	Percent	No.	Percent
Yes	53	67.9	43	59.7	96	64.0
No	25	32.1	29	40.3	34	36.0
<b>Total</b>	<b>78</b>	<b>100.0</b>	<b>72</b>	<b>100</b>	<b>150</b>	<b>100.0</b>
Reason for not describing	No.	Percent	No.	Percent	No.	Percent
Shy	25	100.0	29	100.0	54	100.0

Source: Field Survey, 2009.

Table 5.19 clarifies that majority of the respondents with no difference regarding sex said that their teacher do not hesitate to describe regarding sexuality and sexually transmitted infections. The proportions of such adolescent students 64 percent. The rest 36 percent of respondents said that their teacher hesitate to describe reported that it was because of their shyness.

## **CHAPTER VI**

### **SUMMARY, CONCLUSION AND RECOMMENDATION**

#### **6.1 Summary of the Findings**

This is the study on knowledge and attitudes towards STIs and HIV/AIDS among secondary level students of Satakhani VDC in Surkhet district based on the small scale study carried out only one Khandadevi secondary school of Satakhani VDC. The main objectives are to analyze the knowledge on HIV/AIDS and STIs among adolescents by their background characteristics and identify the knowledge on modes of transmission and methods of prevention STIs and HIV/AIDS among the respondents. Altogether 150 students as a sample size. From the field survey following major findings are taken, which are as follows.

##### **6.1.1 Household Characteristics**

- The majority of the respondent's (70.7%) family size is 5 to 10 members.
- Most of the respondents fathers (28.1%) have primary level and only (15.7%) of the respondent's fathers have SLC and above level of education while 21 percent respondents mothers were illiterate and only 1.4 percent respondents mothers have SLC level of education.
- Most of respondents parents (79.5% father and 93.2% mother) are engaged in agricultural occupation.
- All of the respondents have radio facility and 85.3 percent have electricity facility at their home.

##### **6.1.2 Individual Characteristics**

- Highest proportion of respondents (47.3%) are of 15 years. Among them female proportion is high than male.
- The highest numbers of respondents are Brahmin (38.7%) followed by Magar (29.3%).
- Majority of the respondents are Hindu (94%).



- Majority of the respondents (93.3%) are unmarried and only (6.7%) are married among them female proportion is high.
- Majority of the respondents are resided in their own home (91.3%)

### **6.1.3 Knowledge and Attitudes about STIs**

- More respondents are found knowledgeable about STIs. Almost respondents (89.3%) have heard about STIs. This can be the result of increasing access to information, education and communication materials as well as there is inclusion of STIs and HIV/AIDS chapter in secondary level textbook.
- Among the respondents who have heard about STIs, all of them know about the HIV/AIDS, followed by Gonorrhea (66.4%) and syphilis (58.2%).
- Among the respondents who have heard about STIs, most of them understand that the main symptom of STIs is itching around genitals (70.1%) followed by yellowish pus-like discharge (60.4%).
- The strongest media to get information on STIs is teacher/textbook for the school adolescents for which most of the (94.8%) girls and boys reported.
- Almost all of the respondents (97.0%) reported that by sexual contact the STIs can be transmitted from one person to another.
- All of the respondents (100%) reported that the STIs can be prevented using condom followed by the respondents who said sexual contact with single partner (57.3%).
- Fifty percent of the respondents have positive attitude towards STIs infected person.
- Most of the respondents (70%) reported that STIs be cured.
- Most of the respondents (88%) suggest that using condom during sexual intercourse avoiding from STIs.

- Almost all respondents (83.3%) would suggest for infected person in their community by go for treatment followed by (42.7%) would suggest use condom/avoid sex.

#### **6.1.4 Knowledge and attitudes about HIV/AIDS**

- All of the respondents were found having heard about HIV/AIDS. Regarding source of information on HIV/AIDS, the table shows that almost all of the respondents (96%) have heard about HIV/AIDS through teacher/textbook followed by radio (88%).
- Most of the respondents have written the full-form of AIDS correctly which is accounted for (77.3%).
- All of the respondents reported that the main ways of transmission of HIV/AIDS is sexual contacts, followed by contaminated needles and blood (82.7%) and mother to fetus (60%).
- All of the respondents reported that the use of condom is the most important and effective method of prevention of HIV/AIDS. Similarly, higher proportions of girls (81.9%) than boys (66.7%) said not to have sex with multiple partners in order to prevent HIV/AIDS.
- Most of the respondents (96.7%) agreed that the commercial sex workers are vulnerable to HIV/AIDS in the society followed by drug addicts (86.7%).
- The majority of the respondents have accepted AIDS as sexually transmitted disease which is accounted for (82%) followed by fatal disease (49.3%).
- Majority of the respondents have accepted AIDS infected persons, all of them die which is accounted for (69.3%) followed by some of them die (30.7%).
- Majority of the respondents with no difference regarding sex said that their teacher do not hesitate to describe regarding sexuality, STIs and HIV/AIDS. Interestingly, all of the respondents who said that their teacher hesitate to describe reported that it was because of their shyness.

## 6.2 Conclusion

The changing social norms and values regarding sex and the increasing age at marriage are attributed to adolescents premarital sexual activities. Due to such activities, they may have risks of various health hazards, socio-economic and demographic consequence namely unwanted pregnancy, unmarried mother and HIV infection. In such a situation, they must be supported by correct information to dispel the mental stress and help them practice responsible sexual behaviours.

Findings from the study show that respondents have more knowledge on STIs and HIV/AIDS. Respondent's parents were found low educated, low employee and low economic condition.

Among the respondents who said to have heard about STIs, most of them said to have heard of syphilis and gonorrhoea but they are ignorant about other venereal diseases like urinary problems and genital warts.

Teacher/textbook is found to be the strongest media provide the information regarding STIs and HIV/AIDS. It shows that the out-school adolescents would have very less knowledge on it. The other important media are radio, health person and friends. These media are very rare for out of school adolescents because they may not have educated friends to give information on these matters.

Most of the respondents said that the commercial sex workers are vulnerable to HIV/AIDS but lower proportions of them reported drug addicts, drivers and adolescents. Less proportion of the respondents reported their teacher hesitates to describe openly about sexual matters. All of them said this reported the only one reason behind it is his/her shyness. Despite the high knowledge on STIs and HIV/AIDS, adolescent boys are found less exposed towards drug addicts and the severe impact of carelessness in blood transfusion. Similarly, the respondents are found to have less informed about sexuality, STIs and HIV/AIDS through their parents.

### **6.3 Recommendations**

On the basis of findings and conclusion of the study, following recommendations are made for the further improvement on the awareness, changing attitude and reducing and controlling of STIs and HIV/AIDS

- It is notable that adolescents are less exposed on drug addiction for which they have said less vulnerable to HIV transmission are likely to ignore it in their behavioural life. Therefore, they should be provided detailed and proper knowledge on it.
- STIs and HIV/AIDS through different media such as radio and TV. Also they should be informed through non-formal education and education campaign.
- Sexuality education is highly welcomed by students of lower secondary and secondary school. Therefore, the sexuality education should be provided in school level education.
- The plan and policy should be targeted to adolescents' health, education and overall improvement of their physical, social and psychological change.
- Majority of adolescents reported that use of condom is the most important method of preventing HIV/AIDS and STIs transmission therefore it is necessary to make them more knowledgeable in the context of condom use.
- Sex education should be provided to the society through information, education and communication programme.
- Knowledge on prevention mode of transmission and other information of STIs and HIV/AIDS should be provided regularly.
- HIV/AIDS programs should be launched based on the adolescents by GOs, INGO and CBOs.

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(APPENDIX)

Tribhuvan University

Central Department of Population Studies (CDPS)

A questionnaire of knowledge and Attitude on STIs and HIV/AIDS among Shree Khand  
Devi Secondary School's in Satakhani, Surkhet

A. Household Roster

Household No.:

Date:

Name of Locality :

Religion :

Name of Respondents:

Ward No.:

Sex of Respondents:

Family Type :

1) Nuclear

2) Extended

S.N.	Name	Relation of the HH Sex	Sex		Age	Education	Marital Status	Occupation	Eligible Aged 13-19=1 Others = 2
			M	F					
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Code for

<u>Relation to HH</u>		<u>Sex</u>		<u>Education</u>		<u>Occupation</u>		
Head of the household	01	Male		01	No education	01	Agriculture	01
Wife or husband	02	Female		02	Primary	02	Business	02
Son and daughter	03		<u>Marital Status</u>		Lower secondary	03	Service	03
Grand son/daughter	04	Married		01	Secondary	01	Labour	04
Father/mother	05	Unmarried		02	SLC passed	02	Students	05
Brother and sister	06	Widow/widower		03	HHS and above	03	Others	06
Causein/nephew	07	Separated		04				
Son and daughter in law	08							
Mother/father in law	09							

1. Do you have following  
facility at home ?

Electricity .....1  
Radio .....2  
T.V. ....3  
Telephone/Mobile.....4  
Computer.....5



**B. Individual Characteristic**

Respondent Number:

Date: / /

2) School's Name:

3) Name of Students:

4) Class:

5) Age:

6) Sex: Boy .....1

Girl ..... 2

7) Caste/Ethnicity:

8) Marital Status: Married..... 1

Unmarried .....2

9) Religion :

Hindu ..... 1 Buddhist .....2 Islam .....3 Christian .....4 Others (Specify)....5

10) Where do you live/stay at present ?

At home ..... 1

At hostel.....2

At rented room .....3

At relative .....4

Others (specify) .....5

**C. Knowledge on STIs**

S.N.	Questions	Response Category	Skip
11	Have you heard about Sexually Transmitted infections (STIs)?	Yes.....1 No.....2	Q.N 29
12	If yes from which source did you hear?	Radio.....1 TV.....2 News paper.....3 GO/NGO/INGO.....4 Health personnel.....5 Friends.....6 Parents.....7 Teachers.....8 Text book.....9 Others(specify) .....10	
13	If yes which of the following STIs have you heard?	Syphilis.....1 Gonorrhea.....2 HIV/AIDS.....3 Genital warts.....4 Hepatitis-B.....5 HIV/AIDS.....6 Others (specify).....7	
14	What are the main symptoms of STIs?	Headache.....1 Swelling.....2 Itching around Genital and mouth.....3 Yellowish pus like discharge from vagina...4	

15	Do you know about the ways of transmission of STIs?	Yes.....1 No..... 2	
16	If yes, how is STIs Transmitted ?	Sexual contact.....1 Living together.....2 Contaminated needles and blood.....3 Infected mother to fetus.....4 Others(specify) .....5	
17	Do you know how is STIs prevented?	Using condom.....1 Sexual contact with single partner.....2 Avoiding contaminated syringes and blood.....3 Others (specify) .....4	

#### **D. Attitude on STIs**

18	What do you suggest for avoiding STIS ?	..... .....	
19	What attitude do you have towards STIS infected person in your community ?	Hate them .....1 Love and respect them .....2 Help and participate them .....3 Don't know .....4 Other (specify) .....5	
20	Can STIS be cured ?	Yes .....1 No .....2 Don't know .....3	

#### **E. Knowledge on HIV/AIDS**

21	Have you ever heard about the HIV/AIDS?	Yes.....1 No.....2	
22	Through which sources have you heard about HIV/AIDS?	Radio.....1 TV.....2 News paper.....3 GO/NGO/INGO.....4 Health personnel.....5 Friends.....6 Parents.....7 Teachers.....8 Text book.....9 Others(specify) .....10	
23	If yes, write down the full form of AIDS?	..... .....	

24	How is HIV/AIDS transmitted?	Sexual contacts.....1 Contaminated needles and blood.....2 Infected Mother to fetus.....3 Breast feeding.....4 Sharing razor.....5 Kissing.....6 Slipping together.....7 Others(specify) .....8	
25	Do you know how is HIV/AIDS prevented?	Do not have sex with multiple partner.....1 Do not have sex with unknown person.....2 Use condom.....3 Use sterilized surgical instrument.....4	

**F. Attitude on HIV/AIDS**

26	In your opinion, who are the most vulnerable group in our society from HIV/AIDS?	Youth adolescent.....1 Drivers.....2 Drug addicts.....3 Commercial sex workers.....4 Others(specify) .....5	
27	In your opinion, does the entire AIDS infected person die or some of them die or do not die?	All of them die.....1 Some of them die.....2 Nobody dies at all.....3 Don't know.....4	
28	In your opinion, what is AIDS?	Fatal disease.....1 Sexual transmitted disease.....2 Communicable disease.....3 Dangerous and transmitted by careless sexual contact.....4 Immune deficiency syndrome.....5	
29	Do your teacher describe about STIs and HIV/AIDS?	Yes.....1 No.....2	
30	If not, what may be the reason for not describing?	Shy.....1 Don't know about subject matter.....2 Negligence.....3 Don't know.....4	
31	Write your comments or suggestions regarding this study if any?	..... ..... ..... .....	

Thank you